	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING FORM 3 AMENDED REPORT DIVISION OF OIL, GAS AND MINING													
			APPLICATION FOR	PERMIT T	O DRILL					1. WELL NAME and N	JMBER GMBU 2-3	6-8-15H		
2. TYPE C	F WORK	DRILL NEW WEL	L (REENTER P&	A WELL	DEEPEN	WELL (3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE C	F WELL		Oil Well Coalbe	d Methane						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME	OF OPERATOR		NEWFIELD PRODUC							7. OPERATOR PHONE				
8. ADDRE	SS OF OPERAT	OR	Rt 3 Box 3630 , M	yton, UT, 8	4052					9. OPERATOR E-MAII	L :rozier@ne	wfield.con	า	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) MI. 21835 11. MINERAL OWNERSHIP FEDERAL INDIAN STATE FEE FEDERAL INDIAN STATE FEE FEDERAL INDIAN STATE FEE FEDERAL														
13. NAME	### FEDERAL INDIAN STATE FEDER													
15. ADDR	15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 16. SURFACE OWNER E-MAIL (if box 12 = 'fee')													
17 INDIA	N ALLOTTEE C	R TRIBE NAME			D ТО СОММ		DUCTION F	ROM	-	19. SLANT				
	2 = 'INDIAN')	IN TRIBE NAME		MULTIPLE YES	(Submit C	NS ommingling	Application)) NO 📵		VERTICAL DI	RECTIONAL	. — н	ORIZONT	AL 📵
20. LOC	ATION OF WEL	L	FO	OTAGES		QTR-Q	TR	SECTIO	N	TOWNSHIP	RA	NGE	МЕ	RIDIAN
LOCATIO	ON AT SURFAC	E	934 FN	L 2061 FE	L	NWNE	E	36		8.0 S	15.	0 E		S
Top of L	Jppermost Pro	ducing Zone	934 FN	L 2061 FE	L	NWNE		36		8.0 S	15.	0 E		S
At Total	Depth		190 FS	L 1180 FW	'L	SWSV	V	36				15.0 E S		S
21. COUN	ITY	DUCHESNE		22. DISTAI	NCE TO NEA	REST LEASI 190	E LINE (Feet	t)		23. NUMBER OF ACR	ES IN DRIL 640		Γ	
					NCE TO NEA For Drilling o			00L	:	26. PROPOSED DEPTI MD		TVD: 611	1	
27. ELEV	ATION - GROU	ND LEVEL 5774		28. BOND	NUMBER	B001834				29. SOURCE OF DRIL WATER RIGHTS APPR		IBER IF A	PPLICABL	LE
				Но	le, Casing,			nation						
String	Hole Size	Casing Size	Length	Weight	Grade &					Sacks	Yield	Weight		
Surf	12.25 7.875	8.625 5.5	0 - 300	24.0		ST&C LT&C	9.0		Pre	Class G emium Lite High Str	enath	122	3.53	15.8
1100	7.070	0.0	0 0071	20.0	110	2100	0.0		- 110	50/50 Poz	ongui	303	1.24	14.3
P2	7.875	4.5	6571 - 10671	11.6	P-110	LT&C	9.0	0		No Used		0	0.0	0.0
					A.	TTACHME	NTS							
	VE	RIFY THE FOLL	OWING ARE ATTAC	HED IN A	CCORDAN	CE WITH 1	ΓΗΕ UTAH	OIL AND	GAS	CONSERVATION G	ENERAL	RULES		
⊮ w	WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER COMPLETE DRILLING PLAN													
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE) FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER														
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) TOPOGRAPHICAL MAP														
NAME M	andie Crozier			TITLE	Regulatory	Tech			PHON	IE 435 646-4825				
SIGNATU	SIGNATURE DATE 11/17/2011 EMAIL mcrozier@newfield.com													
	API NUMBER ASSIGNED APPROVAL APPROVAL													
									Per	mit Manager				

Newfield Production Company GMB 2-36-8-15H NW/NE Section 36, T8S, R15E Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta surface
Green River 1,655'
Garden Gulch member 3,849'

TD 6,111' TVD / 10,671' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline 127' (water)
Green River 3,849' - 6,111' (oil)

3. Pressure Control

Section BOP Description

Surface No control

Production The BOP and related equipment shall meet the minimum requirements of Onshore

Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc

for a 2M system.

A 2M BOP system will consist of 2 ram preventers (double or two singles), and a rotating head. A choke manifold rated to at least 2,000 psi will be used.

4. Casing

Description	Interval		Interval Weight		Grade Coup		MW @	Frac Grad	S	afety Facto	rs
Description	Тор	Bottom (TVD/MD)	(ppf)	Grade	Coup	Press @ Shoe	Shoe	@ Shoe	Burst	Collapse	Tension
Surface	0'	300'	24	J-55	STC	8.33	8.33	12	2,950	1,370	244,000
8 5/8	0'	300	24	3-33	510	0.55	0.55	12	17.53	14.35	33.89
Production	0'	6,255'	20	N-80	LTC	8.33	9.0		9,190	8,830	428,000
5 1/2		6,571'	20	IN-0U	LIC	6.33	9.0		4.41	3.84	3.42
Production	6,571'	6,111'	11.6	P-110	LTC	8.33	9.0		10,690	7,560	279,000
4 1/2	0,371	10,671'	11.0	F-110	LIC	0.33	9.0		5.25	3.36	5.27

A tapered string of production casing will be run. A 7-7/8" hole will be drilled for the 5-1/2" casing in the vertical and curve sections of the well. A 6-1/8" hole will be drilled for the 4-1/2" casing in the lateral section of the well.

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient All tension calculations assume air weight of casing Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size	Fill	Slurry Description	ft ³	OH excess	Weight	Yield
JOD	Hole Size		Sturry Description	sacks	OII excess	(ppg)	(ft ³ /sk)
Surface	12 1/4	300'	Class G w/ 2% KCl + 0.25 lbs/sk Cello	142	15%	15.8	1.17
Surface	Flake		122	1370	13.6	1.17	
Production	7 7/8	3,849'	Premium Lite II w/ 3% KCl + 10%	767	15%	11.0	3.53
Lead	7 7/8	3,049	bentonite	217	1570	11.0	3.33
Production	7 7/8	1,886'	50/50 Poz/Class G w/ 3% KCl + 2%	376	15%	14.3	1.24
Tail	7 7/8 1,880		bentonite	303	15%	14.5	1.24

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

A system of open hole packers will be used to isolate frac stages in the lateral. Open hole packers will be used to isolate the vertical portion of the well from the lateral. A port collar will be used to cement the vertical portion of the well.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 15% excess.

6. Type and Characteristics of Proposed Circulating Medium

Interval Description

Surface - 300'

An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

300' - TD

A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 9.0 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the

top of the Garden Gulch formation. A Gamma Ray log will be run from TD to surface. A cement bond log will be run from the port collar to the cement top behind the production casing. (cemented interval)

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.43 psi/ft gradient.

$$6,255' \text{ x}$$
 0.43 psi/ft = 2709 psi

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

The well will be drilled vertically to a kick-off point of 5,735'

Directional tools will then be used to build to 92.02 degrees inclination.

The hole size in the lateral will be reduced to 6-1/8". The lateral will be drilled to the bottomhole location shown on the plat.

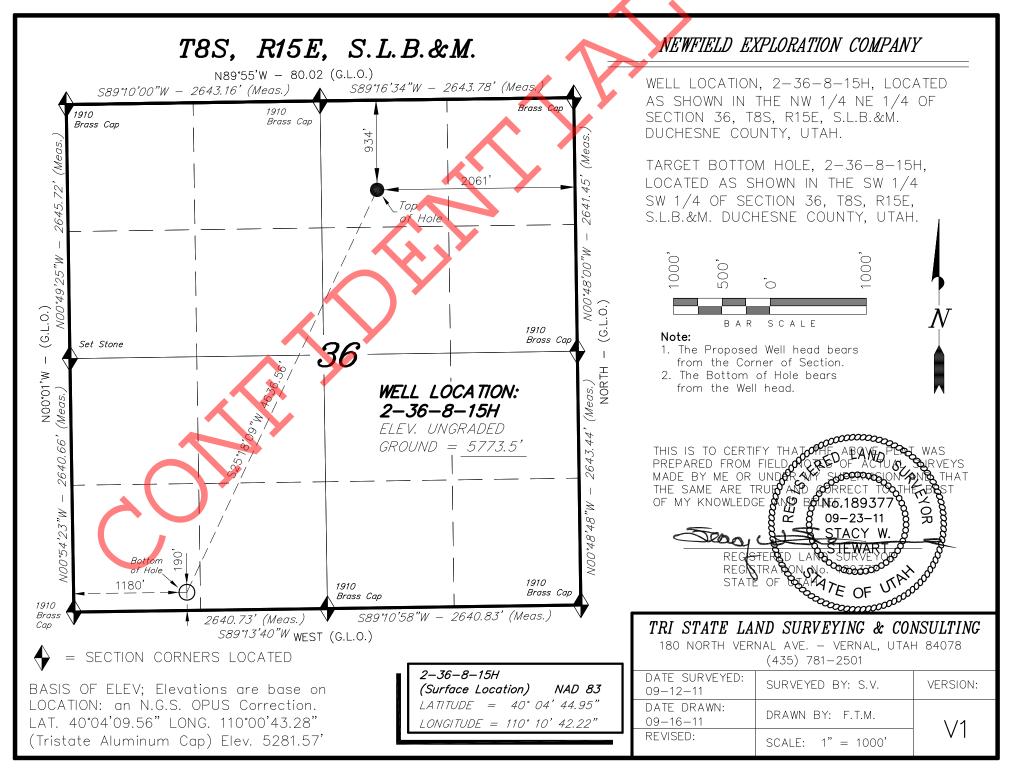
A tapered string of production casing will be run in the well, with 5-1/2" casing in the vertical and curve portions and 4-1/2" casing in the lateral portion.

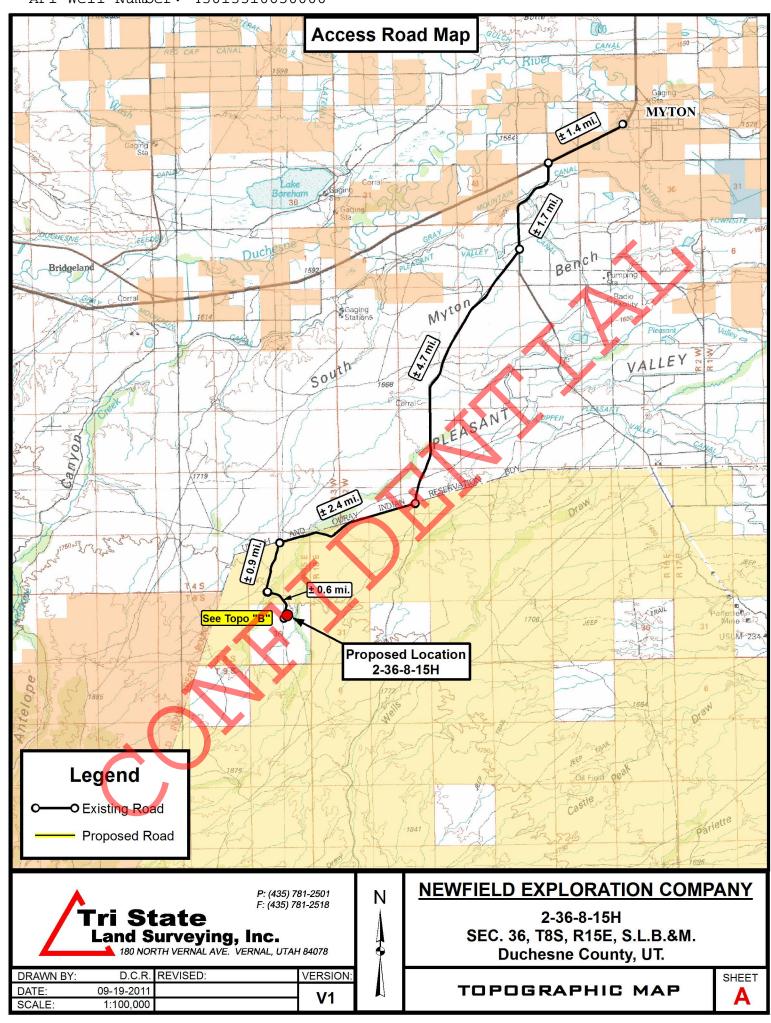
A system of open hole packers will be used to provide multi-stage frac isolation in the lateral.

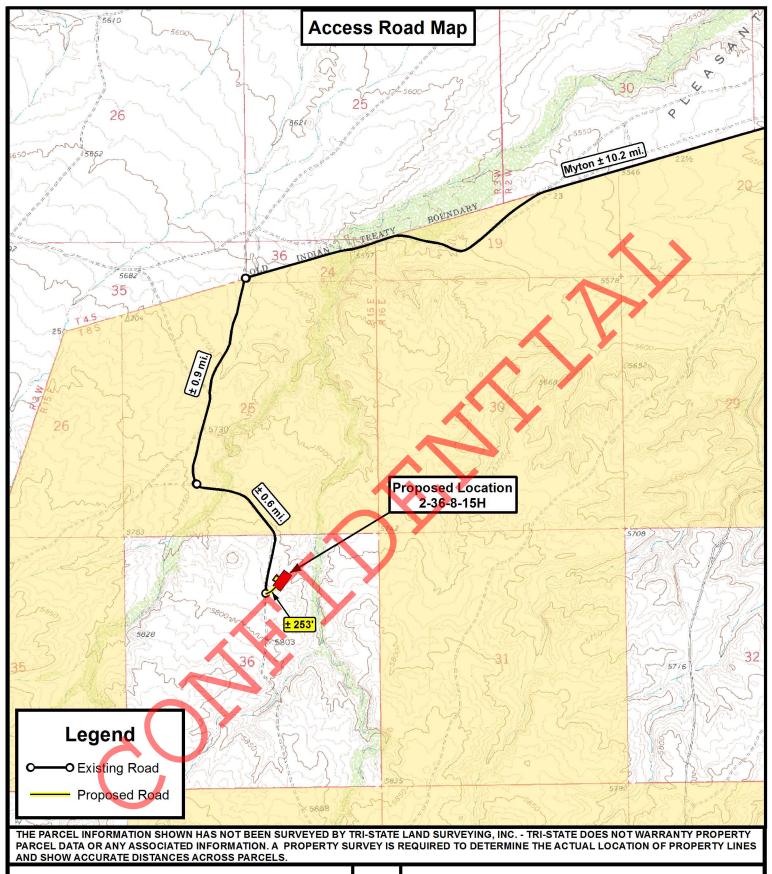
A set of open hole packers will be placed at kick-off point to isolate the lateral. A port cementing collar will placed above the packers and will be used to cement the vertical portion of the well bore.

Newfield requests the following Variances from Onshore Order # 2:

Variance from Onshore Order 2, III.E.1
 Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.2







N



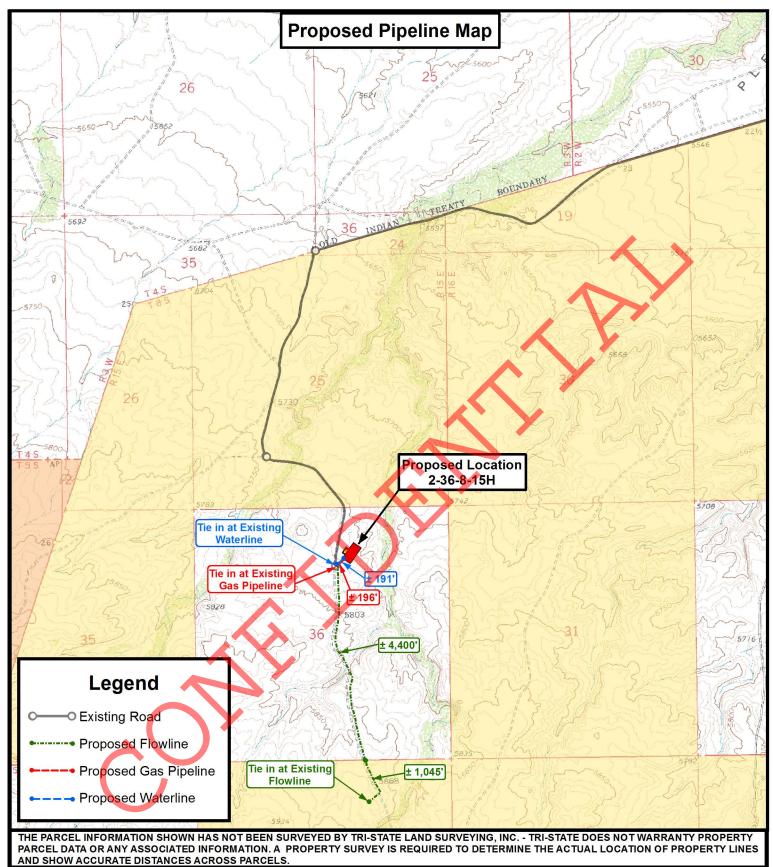
	5.07		
AWN BY:	D.C.R.	REVISED:	VERSION:
TE:	09-19-2011		1/4
ALE:	1 " = 2,000 '		VI

NEWFIELD EXPLORATION COMPANY

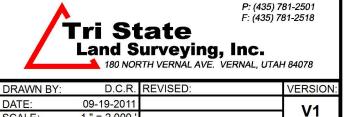
2-36-8-15H SEC. 36, T8S, R15E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP





N



1 " = 2,000

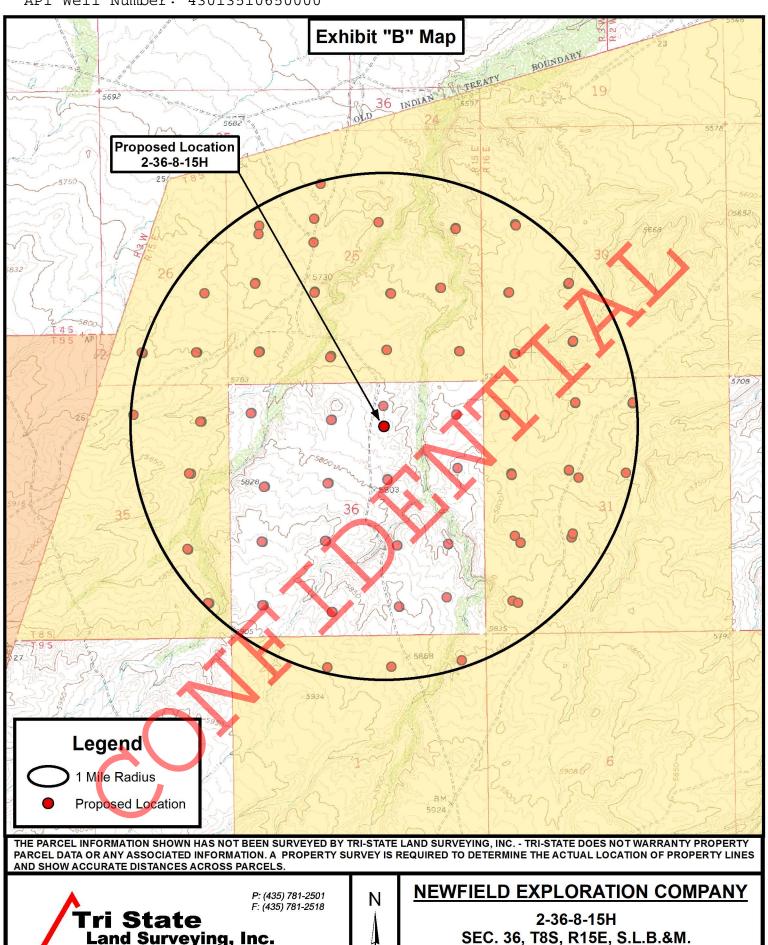
SCALE

NEWFIELD EXPLORATION COMPANY

2-36-8-15H SEC. 36, T8S, R15E, S.L.B.&M. **Duchesne County, UT.**

TOPOGRAPHIC MAP

SHEET C



Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 DRAWN BY: D.C.R. REVISED: VERSION DATE: 09-19-2011 **V1**

1 " = 2,000

SCALE

SEC. 36, T8S, R15E, S.L.B.&M. **Duchesne County, UT.**

TOPOGRAPHIC MAP





Newfield Production Company

Project: Utah

Site: GMB 2-36-8-15H

Well: GMB 2-36-8-15H

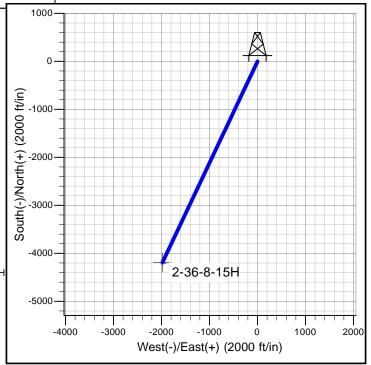
Wellbore: Wellbore #1
Design: Design #1



Azimuths to Grid North True North: -0.85° Magnetic North: 10.45°

Magnetic Field Strength: 52270.3snT Dip Angle: 65.80° Date: 11/10/2011 Model: IGRF200510





SECTION DETAILS

Azi **TVD** +N/-S Dleg TFace VSect Target Inc 0.0 0.0 0.00 0.0 0.00 0.00 0.0 0.00 0.00 0.0 0.00 0.00 5735.0 0.0 0.0 0.00 3 6571.5 92.02 205.30 6255.5 -487.5 -230.4 11.00 205.30 539.2 4 10671.4 92.02 205.30 6111.0 -4191.8 -1981.5 0.00 0.00 4636.6

PROJECT DETAILS: Utah

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980 Zone: Utah Central Zone

System Datum: Mean Sea Level



Utah

GMB 2-36-8-15H

GMB 2-36-8-15H

Wellbore #1

Plan: Design #1

Standard Planning Report

10 November, 2011

GMB 2-36-8-15H

Site

Planning Report

Site GMB 2-36-8-15H EDM 5000.1 Update Local Co-ordinate Reference: Database: Company: **Newfield Production Company** TVD Reference: RKB @ 5787.0ft Project: Utah RKB @ 5787.0ft MD Reference: GMB 2-36-8-15H Site: North Reference: Grid Well: GMB 2-36-8-15H **Survey Calculation Method:** Minimum Curvature Wellbore: Wellbore #1 Design: Design #1 Utah

Project Utah

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: Utah Central Zone

Northing: 2,194,651.99 m Site Position: Latitude: 40° 4' 44.950 N From: Lat/Long Easting: 612,712.10 m Longitude: 110° 10' 42.220 W **Position Uncertainty:** 0.0 ft Slot Radius: 13.200 in Grid Convergences 0.85 Well GMB 2-36-8-15H **Well Position** 40° 4' 44.950 N +N/-S 0.0 ft Northing: 2,194,651.99 m Latitude: +E/-W 0.0 ft Easting: 612,712.10 m Longitude: 110° 10' 42.220 W **Position Uncertainty** 0.0 ft Wellhead Elevation: Ground Level: 5,774.0 ft

 Wellbore
 Wellbore #1

 Magnetics
 Model Name
 Sample Date
 Declination
 Dip Angle (°) (nT)

 IGRF200510
 11/10/2011
 11:29
 65.80
 52,270

Design Design #1 Audit Notes: Version: Phase: PROTOTYP Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.0 205.30 0.0 0.0

Plan Sections											
Measured Depth (ft)	Inclination (°)	Azimuth	D	rtical epth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00		0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,735.0	0.00	0.00		5,735.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,571.5	92.02	205.30		6,255.5	-487.5	-230.4	11.00	11.00	0.00	205.30	
10,671.4	92.02	205.30		6,111.0	-4,191.8	-1,981.5	0.00	0.00	0.00	0.00	2-36-8-15H

Planning Report

Database: EDM 5000.1 Update

Company: Newfield Production Company

Project: Utah

 Site:
 GMB 2-36-8-15H

 Well:
 GMB 2-36-8-15H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site GMB 2-36-8-15H RKB @ 5787.0ft RKB @ 5787.0ft

Grid

Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2.000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300,0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,90 <mark>0.</mark> 0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database: EDM 5000.1 Update

Company: Newfield Production Company

Project: Utah

 Site:
 GMB 2-36-8-15H

 Well:
 GMB 2-36-8-15H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site GMB 2-36-8-15H RKB @ 5787.0ft RKB @ 5787.0ft

Grid

Minimum Curvature

esign:	Design #1								
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,735.0	0.00	0.00	5,735.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	7.15	205.30	5,799.8	-3.7	-1.7	4.1	11.00	11.00	0.00
5,900.0	18.15	205.30	5,897.3	-23.4	-11.1	25.9	11.00	11.00	0.00
6,000.0	29.15	205.30	5,988.7	-59.7	-28.2	66.0	11.00	11.00	0.00
6,100.0	40.15	205.30	6,070.8	-111.0	-52.5	122.8	11.00	11.00	0.00
6,200.0	51.15	205.30	6,140.6	-175.5	-83.0	194.2	11.00	11.00	0.00
6,300.0	62.15	205.30	6,195.5	-250.9	-118.6	277.6	11.00	11.00	0.00
6,400.0	73.15	205.30	6,233.5	-334.4	-158.1	369.9	11.00	11.00	0.00
6,500.0	84.15	205.30	6,253.1	-422.9	-199.9	467.8	11.00	11.00	0.00
6,571.5	92.02	205.30	6,255.5	-487.5	-230.4	539.2	11.00	11.00	0.00
6,600.0	92.02	205.30	6,254.5	-513.2	-242.6	567.7	0.00	0.00	0.00
6,700.0	92.02	205.30	6,251.0	-603.6	-285.3	667.6	0.00	0.00	0.00
6,800.0	92.02	205.30	6,247.5	-694.0	-328.0	767.6	0.00	0.00	0.00
6,900.0	92.02	205.30	6,243.9	-784.3	-370.7	867.5	0.00	0.00	0.00
7,000.0	92.02	205.30	6,240.4	-874.7	-413.4	967.5	0.00	0.00	0.00
7,100.0	92.02	205.30	6,236.9	-965.0	-456.2	1,067.4	0.00	0.00	0.00
7,200.0	92.02	205.30	6,233.4	-1,055.4	-498.9	1,167.3	0.00	0.00	0.00
7,300.0	92.02	205.30	6,229.8	1,145.7	-541.6	1,267.3	0.00	0.00	0.00
7,400.0	92.02	205.30	6,226.3	-1,236.1	-584.3	1,367.2	0.00	0.00	0.00
7,500.0	92.02	205.30	6,222.8	-1,326.4	-627.0	1,467.1	0.00	0.00	0.00
7,600.0	92.02	205.30	6,219.3	-1,416.8	-669.7	1,567.1	0.00	0.00	0.00
7,700.0	92.02	205.30	6,215.7	-1,507.1	-712.4	1,667.0	0.00	0.00	0.00
7,800.0	92.02	205.30	6,212.2	-1,597.5	-755.1	1,767.0	0.00	0.00	0.00
7,900.0	92.02	205.30	6,208.7	-1,687.8	-797.8	1,866.9	0.00	0.00	0.00
8,000.0	92.02	205.30	6,205.2	-1,778.2	-840.5	1,966.8	0.00	0.00	0.00
8,100.0	92.02	205.30	6,201.6	-1,868.5	-883.2	2,066.8	0.00	0.00	0.00
8,200.0	92.02	205.30	6,198.1	-1,958.9	-926.0	2,166.7	0.00	0.00	0.00
8,300.0	92.02	205.30	6,194.6	-2,049.2	-968.7	2,266.6	0.00	0.00	0.00
8,400.0	92.02	205.30	6,191.1	-2,139.6	-1,011.4	2,366.6	0.00	0.00	0.00
8,500.0	92.02	205.30	6,187.5	-2,229.9	-1,054.1	2,466.5	0.00	0.00	0.00
8,600.0	92.02	205.30	6,184.0	-2,320.3	-1,096.8	2,566.5	0.00	0.00	0.00
8,700.0	92.02	205.30	6,180.5	-2,410.6	-1,139.5	2,666.4	0.00	0.00	0.00
8,800.0	92.02	205.30	6,177.0	-2,501.0	-1,182.2	2,766.3	0.00	0.00	0.00
8,900.0		205.30	6,173.4	-2,591.3	-1,224.9	2,866.3	0.00	0.00	0.00
9,000.0	92.02	205.30	6,169.9	-2,681.7	-1,267.6	2,966.2	0.00	0.00	0.00
9,100.0	92.02	205.30	6,166.4	-2,772.0	-1,310.3	3,066.1	0.00	0.00	0.00
9,200.0	92.02	205.30	6,162.9	-2,862.4	-1,353.1	3,166.1	0.00	0.00	0.00
9,300.0	92.02	205.30	6,159.3	-2,952.8	-1,395.8	3,266.0	0.00	0.00	0.00
9,400.0	92.02	205.30	6,155.8	-3,043.1	-1,438.5	3,366.0	0.00	0.00	0.00
9,500.0	92.02	205.30	6,152.3	-3,133.5	-1,481.2	3,465.9	0.00	0.00	0.00
9,600.0	92.02	205.30	6,148.8	-3,223.8	-1,523.9	3,565.8	0.00	0.00	0.00
9,700.0	92.02	205.30	6,145.2	-3,314.2	-1,566.6	3,665.8	0.00	0.00	0.00
9,800.0	92.02	205.30	6,141.7	-3,404.5	-1,609.3	3,765.7	0.00	0.00	0.00
9,900.0	92.02	205.30	6,138.2	-3,494.9	-1,652.0	3,865.6	0.00	0.00	0.00
10,000.0	92.02	205.30	6,134.7	-3,585.2	-1,694.7	3,965.6	0.00	0.00	0.00
10,100.0	92.02	205.30	6,131.1	-3,675.6	-1,737.4	4,065.5	0.00	0.00	0.00
10,200.0	92.02	205.30	6,127.6	-3,765.9	-1,780.1	4,165.5	0.00	0.00	0.00
10,300.0	92.02	205.30	6,124.1	-3,856.3	-1,822.9	4,265.4	0.00	0.00	0.00
10,400.0	92.02	205.30	6,120.6	-3,946.6	-1,865.6	4,365.3	0.00	0.00	0.00
10,500.0	92.02	205.30	6,117.0	-4,037.0	-1,908.3	4,465.3	0.00	0.00	0.00

Planning Report

Database: EDM 5000.1 Update

Company:

Site:

Newfield Production Company

Project:

Utah GMB 2-36-8-15H

 Well:
 GMB 2-36-8-15H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site GMB 2-36-8-15H RKB @ 5787.0ft RKB @ 5787.0ft

Grid

Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.0 10,671.4	92.02 92.02	205.30 205.30	6,113.5 6,111.0	-4,127.3 -4,191.8	-1,951.0 -1,981.5	4,565.2 4,636.6	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets							<u> </u>		
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
2-36-8-15H - plan hits target cer - Point	0.00 nter	0.00	6,111.0	-4,191.8	-1,981.5	2,193,374.32	612,108.14	40° 4' 3.815 N	110° 11' 8.503 W

NEWFIELD PRODUCTION COMPANY GMBU 2-36-8-15H SHL: NW/NE SECTION 36, T8S, R15E BHL: SW/SW SECTION 36, T8S, R15E DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU 2-36-8-15H located in the NW¹/₄ NE¹/₄ Section 36, T8S, R15E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southwesterly -6.4 miles \pm to it's junction with an existing road to the southwest; proceed southwesterly -2.4 miles \pm to its junction with an existing road to the southwest; continue in a southwesterly direction -0.9 miles \pm to its junction with an existing road to the east; continue in a southeasterly direction -0.6 miles \pm to its junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road -253° \pm to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

Approximately 253' of access road is proposed. See attached Topographic Map "B".

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to **EXHIBIT B**.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District Water Right: 43-7478

Neil Moon Pond Water Right: 43-11787

Maurice Harvey Pond Water Right: 47-1358

Newfield Collector Well

Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

RECEIVED: November 17, 2011

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

DLANS FOR RESTORATION OF SURFACE:

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from

the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah.

12. **OTHER ADDITIONAL INFORMATION:**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit #U-08-MQ-1227b,s 1/26/09. Paleontological Resource Survey prepared by, Wade E. Miller, 10/20/11.

Newfield Production Company requests 253' of planned access road be granted. **Refer to Topographic Map "B".** Newfield Production Company requests 196' of surface gas line be granted. Newfield Production Company requests 191' of buried water line be granted.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice form will be applied for through the State of Utah DOGM office.

Surface Flow Line

Newfield requests 4,400' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. Refer to Topographic Map "C" for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

<u>Clearing and Grading</u>: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

<u>Installation</u>: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

<u>Termination and Final Reclamation:</u> After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU 2-36-8-15H, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU 2-36-8-15H Newfield will use, produce,

store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION

Representative

Name: Tim Eaton

Address: Newfield Production Company

Route 3, Box 3630 Myton, UT 84052

Telephone: (435) 646-3721

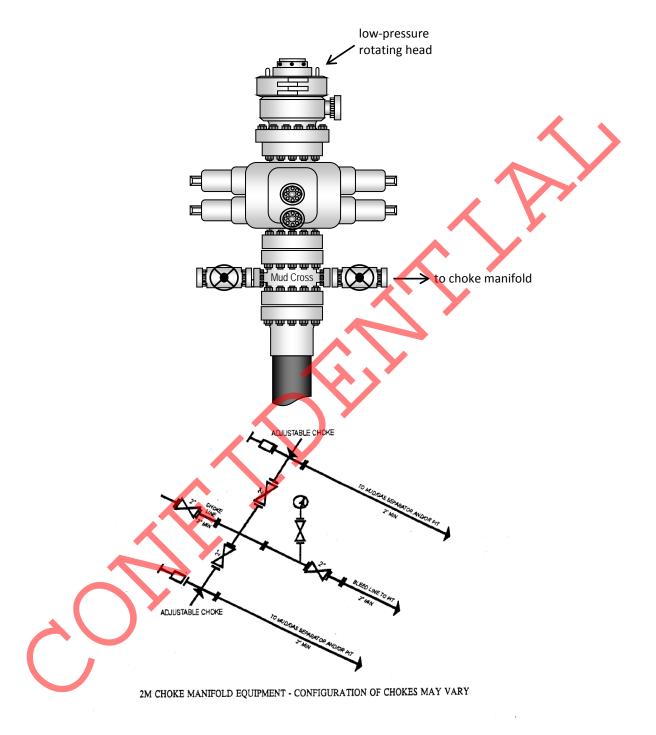
Certification

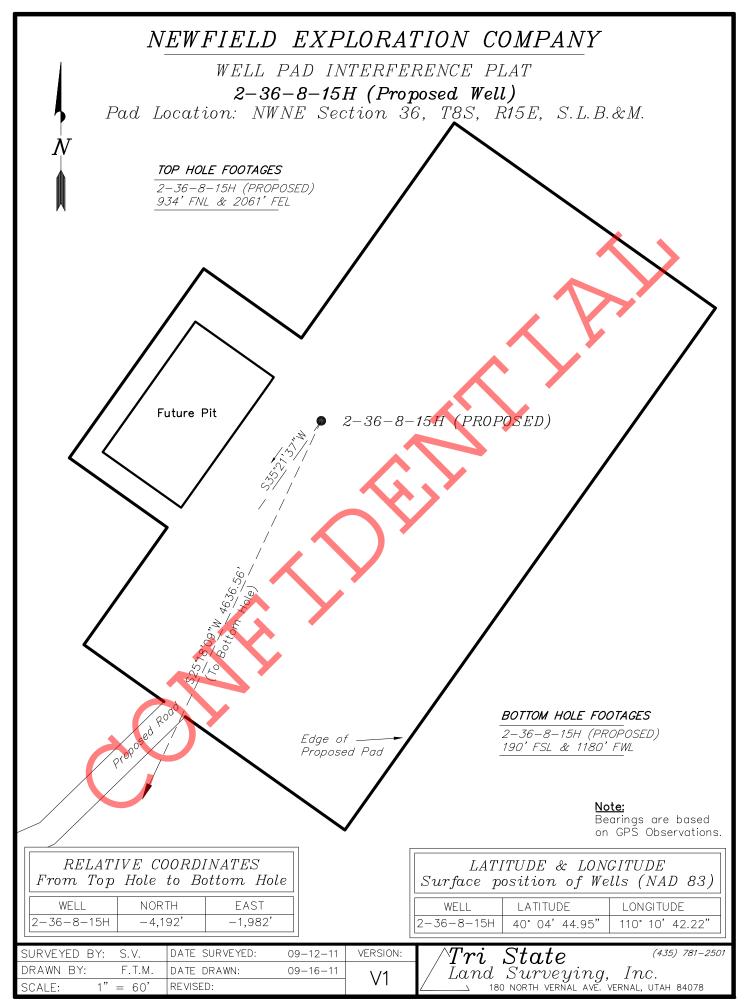
Please be advised that Newfield Production Company is considered to be the operator of well #2-36-8-15H, NW/NE Section 36, T8S, R15E, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

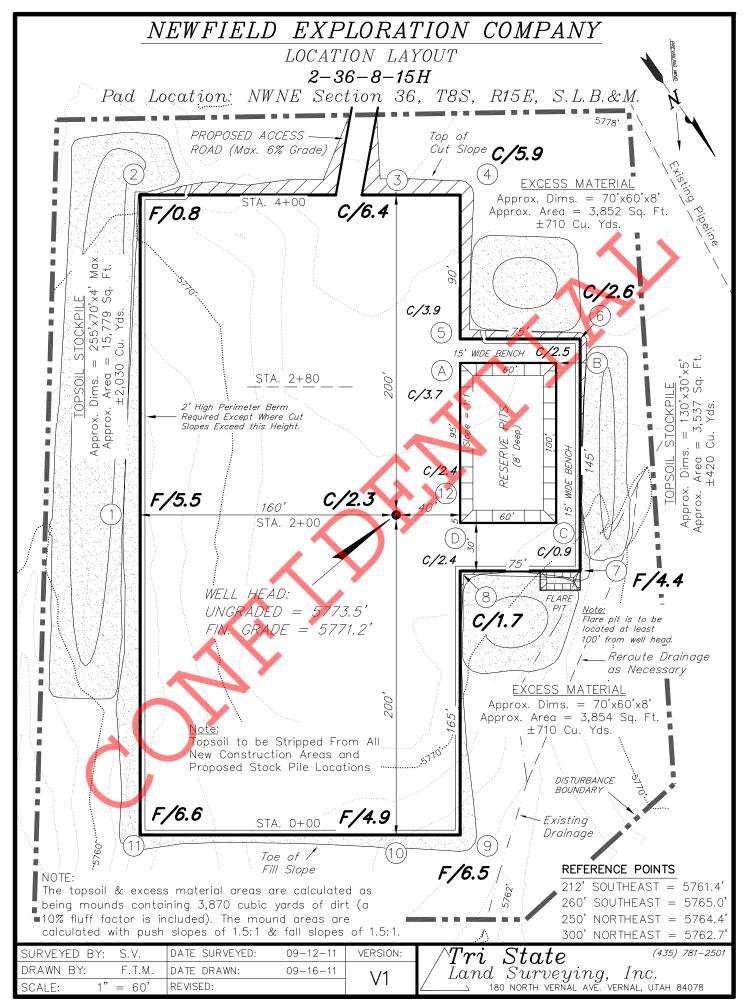
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S. C. 1001 for the filing of a false statement.

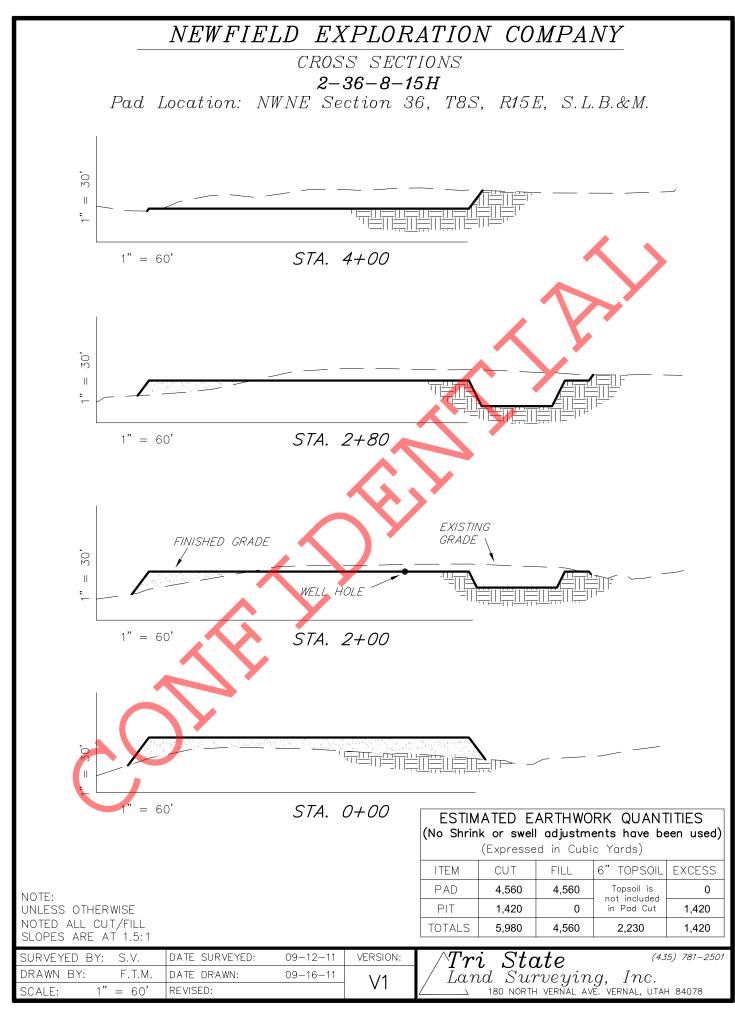
11/17/11	
Date	Mandie Crozier
	Regulatory Analyst
	Newfield Production Company

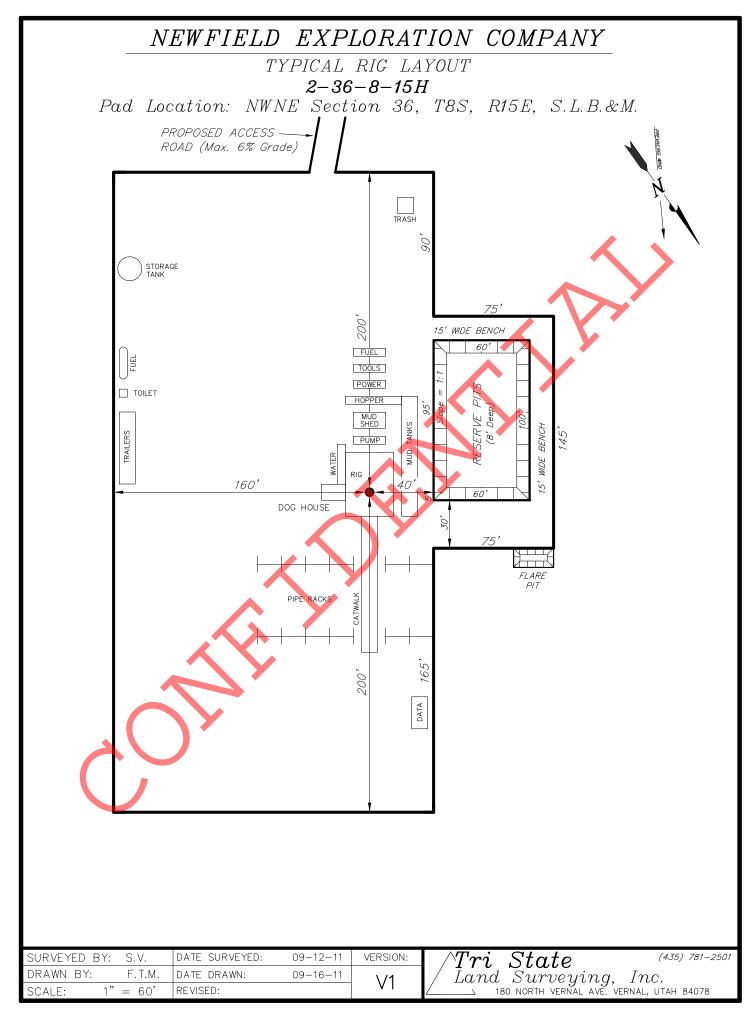
Typical 2M BOP stack configuration

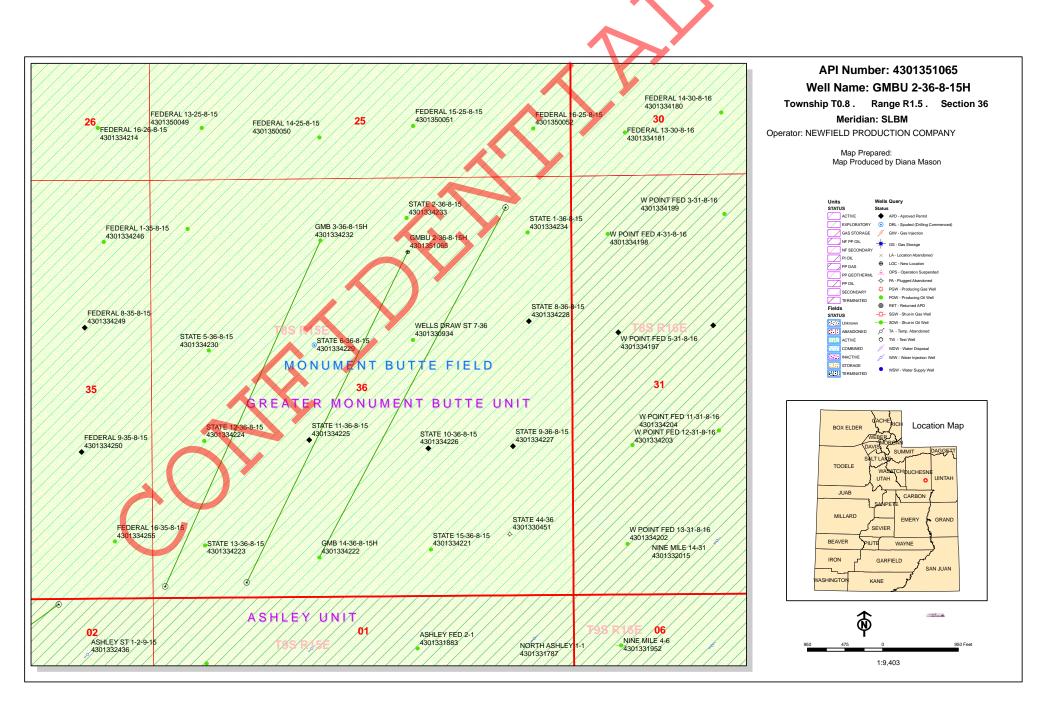












Diana Mason - APD Approvals for GMBU

From: Diana Mason

Subject: APD Approvals for GMBU

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160 (UT-922)

November 18, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Whitney, Division of Off, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API # LOCATION

(Proposed PZ GREEN RIVER)

43-013-51046 GMBU Q-4-9-17 Sec 04 T09S R17E 1916 FSL 0494 FWL BHL Sec 04 T09S R17E 1321 FSL 1846 FWL

43-013-51047 GMBU S-4-9-17 Sec 04 T09S R17E 2050 FSL 1960 FEL BHL Sec 04 T09S R17E 1049 FSL 1089 FEL

43-013-51048 GMBU O-4-9-17 Sec 04 T09S R17E 1712 FNL 1222 FWL BHL Sec 04 T09S R17E 2505 FNL 0125 FWL

43-013-51049 GMBU J-5-9-17 Sec 04 T09S R17E 1708 FNL 1243 FWL BHL Sec 05 T09S R17E 1138 FNL 0118 FEL

43-013-51050 GMBU I-5-9-17 Sec 05 T09S R17E 1796 FNL 0627 FEL BHL Sec 05 T09S R17E 1228 FNL 1387 FEL

43-013-51051 GMBU L-5-9-17 Sec 05 T09S R17E 1810 FNL 0643 FEL BHL Sec 05 T09S R17E 2385 FSL 1656 FEL

about:blank 11/29/2011

Page 2 of 2

API Well Number: 43013510650000

43-013-51052 GMBU D-9-9-17 Sec 04 T09S R17E 0776 FSL 0686 FWL BHL Sec 09 T09S R17E 0135 FNL 1473 FWL

43-013-51065 GMBU 2-36-8-15H Sec 36 T08S R15E 0934 FNL 2061 FEL Lateral 1 Sec 36 T08S R15E 0190 FSL 1180 FWL

43-047-52190 GMBU 2-36-8-17H Sec 36 T08S R17E 0649 FNL 1667 FEL BHL Sec 36 T08S R17E 0100 FSL 1250 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-18-11

-----Original Message-----

From: Diana Mason [mailto:dianawhitney@utah.gov]

Sent: Tuesday, November 22, 2011 7:26 AM

To: Coulthard, Michael L Subject: Fwd: APD Approvals

Oops sorry..Forgot some

11/7/20114899 43013510500000 NEWFIELD GMBU I-5-9-17DUCHESNE 11/7/20114900 43013510510000 NEWFIELD GMBU L-5-9-17DUCHESNE 11/7/20114901 43013510520000 NEWFIELD GMBU D-9-9-17DUCHESNE

>>> Diana Mason 11/22/2011 7:23 AM >>> Hi Mickey,

Do you have an approval for the following APDs?

11/7/20114894 43013510460000 NEWFIELD GMBU Q-4-9-17DUCHESNE 11/7/20114895 43013510470000 NEWFIELD GMBU S-4-9-17DUCHESNE 11/7/20114896 43013510480000 NEWFIELD GMBU O-4-9-17DUCHESNE 11/7/20114897 43013510490000 NEWFIELD GMBU J-5-9-17DUCHESNE

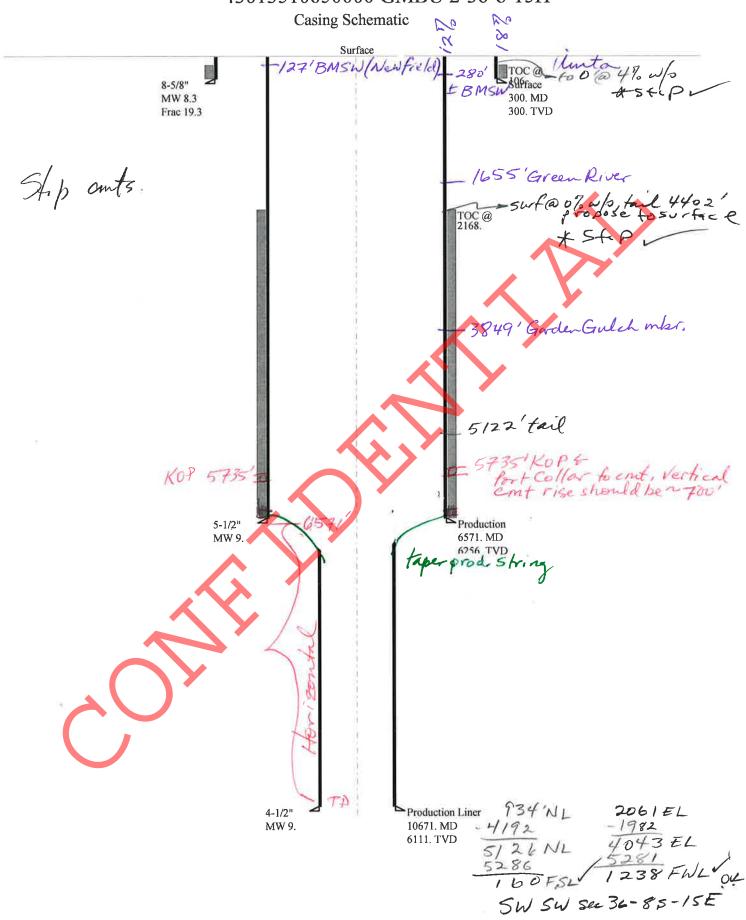
Thank you, Diana

about:blank 11/29/2011

BOPE REVIEW NEWFIELD PRODUCTION COMPANY GMBU 2-36-8-15H 43013510650000

Well Name		NEWFIELD PRO	NEWFIELD PRODUCTION COMPANY GMBU 2-36-				5	
String		Surf	Prod	P2	i		<u>-</u>	
Casing Size(")		8.625	5.500	4.500	i		<u>-</u>	
Setting Depth (TVD)		300	6256	6111	i		<u>-</u>	
Previous Shoe Setting Dept	h (TVD)	0	300	6256	Ī		<u> </u>	
Max Mud Weight (ppg)		8.3	9.0	9.0	Ī		<u>-</u>	
BOPE Proposed (psi)		0	2000	2000	İ		-	
Casing Internal Yield (psi)		2950	9190	10690	İ		-	
Operators Max Anticipated	Pressure (psi)	2628		8.3	İ		-	
				1.3				
Calculations Max BHP (psi)		Surf Stri	ong 052*Setting D	anth*MW-	H	8.625	<u>"</u>	
Wax BIII (psi)			132 Setting L	eptii · M w =	12	29	ROPE Ade	equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)		Max BH	P-(0.12*Setti	ng Depth)=	9:		NO NO	equate For Drining And Setting Casing at Depth.
MASP (Gas/Mud) (psi)			P-(0.22*Setti		6:		NO	OK
(1	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(S	etting Depth	- Previous Sh	oe Depth)=	63	3	NO	I OK
Required Casing/BOPE Tes				30		psi		
Max Pressure Allowed @ Previous Casing Shoe=					0		psi *As	sumes 1psi/ft frac gradient
	-							
Calculations		Prod String				5.500	"	Y
Max BHP (psi)		.052*Setting Depth*MW=				28		*
MASD (Cog) (ngi)		Max BHP-(0.12*Setting Depth)						equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)			N. BYD (0.00mg vi. B. di.)				NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=				1	52	*Con Full	Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP- 22*(S	etting Denth	- Previous Sh	oe Depth)=		18	NO NO	Reasonable for area
Required Casing/BOPE Tes		8			H		psi	Reasonable for area
*Max Pressure Allowed @ 1		Shoe=			H	000	-	sumes 1psi/ft frac gradient
		-			30	00	P	8
Calculations		P2 Strii	ng	<u> </u>		4.500	"	
Max BHP (psi)).)52*Setting D	epth*MW=	28	860		
MASP (C.) ()		N PVI	D (0.10*C	B (1)	Ļ			equate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)			P-(0.12*Setti		H	27	NO	
MASP (Gas/Mud) (psi)		Мах ВН	P-(0.22*Setti	ng Depth)=	15	516	YES	E
Pressure At Previous Shoe	Max BHP- 22*(S	etting Denth	- Previous Sh	ne Denth)-				Expected Pressure Be Held At Previous Shoe?
Required Casing/BOPE Tes		otting Depth	Tievious Bi	ос Бериі)=	H	392	yes psi	
*Max Pressure Allowed @		Shoe-			Ë	000		sumes 1psi/ft frac gradient
Max 11cssure Anowen e	e Allowed & Tevious Casing Silve-					256	psi 713	sumes 1531/10 frac gradient
Calculations	String						"	
Max BHP (psi)	.052*Setting Depth*MW=							
							BOPE Ade	quate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=						NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=						NO	
Duranna A. D. C.	M DIID 22***	-441- B -1	D	D	F		_	Expected Pressure Be Held At Previous Shoe?
	ressure At Previous Shoe Max BHP22*(Setting Depth - Previous Shoe Depth)						NO NO]
*May Pressure Allowed @ 1		Choo.			F		psi *A.	sumes Insi/ft frac gradient
TIVIAY PERSONE A HOWARD IN	restinue L'agina '						1181 * 46	

43013510650000 GMBU 2-36-8-15H



Well name:

43013510650000 GMBU 2-36-8-15H

Operator:

NEWFIELD PRODUCTION COMPANY

Project ID:

String type:

Surface

43-013-51065

Location:

DUCHESNE COUNTY

_		
Dac	ian	parameters:
200	IMI	parameters.

Collapse

Mud weight:

8.330 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

Environment:

H2S considered? Surface temperature: Bottom hole temperature:

74 °F 78 °F

No

Temperature gradient: 1.40 °F/100ft Minimum section length: 100 ft

Burst:

Design factor

1.00

1.80 (J)

1.70 (J)

1.60 (J)

1.125

Cement top:

106 ft

Burst

Max anticipated surface

pressure: Internal gradient: Calculated BHP

264 psi 0.120 psi/ft

300 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

Buttress:

Premium:

1.50 (J) 1.50 (B) Body yield:

Tension is based on air weight. Neutral point: 262 ft Non-directional string.

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP: Fracture mud wt:

6,111 ft 9.000 ppg 2,857 psi 19.250 ppg

Fracture depth: Injection pressure:

300 ft 300 psi

Run Seq	Segment Length	Size (in)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	(ft) 300	8.625	24.00	J-55	ST&C	300	300	7.972	(4) 1544
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	130	1370	10.553	300	2950	9.83	7.2	244	33.89 J



Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 7,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013510650000 GMBU 2-36-8-15H

Operator:

NEWFIELD PRODUCTION COMPANY

Project ID:

String type:

Production

43-013-51065

Location:

Design parameters:

DUCHESNE COUNTY

> Minimum design factors: **Environment:**

Collapse

Mud weight: 9.000 ppg

Design is based on evacuated pipe.

Collapse: H2S considered? No 74 °F Design factor 1.125 Surface temperature: 162 °F

Bottom hole temperature: 1.40 °F/100ft Temperature gradient:

Minimum section length: 1,000 ft

Burst:

1.00 Design factor

Cement top:

2,168 ft

Burst

Max anticipated surface

Calculated BHP

1,548 psi pressure: Internal gradient:

0.220 psi/ft 2,925 psi

No backup mud specified:

Tension:

8 Round STC: 1.80 (J) 1.80 (J) 8 Round LTC: Buttress: 1.60 (J)

Premium:

1.50 (J) Body yield: 1.60 (B)

Tension is based on air weight.

Directional Info - Build & Hold

Kick-off point 5735 ft 539 ft Departure at shoe: Maximum dogleg: 11 °/100ft

91.96° Inclination at shoe:

Neutral point: 5,403 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	6571	5.5	20.00	N-80	LT&C	6256	6571	4.653	43585
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
_	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	2925	8339	2.851	2925	9190	3.14	125.1	428	3.42 J



Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 7,2012 Salt Lake City, Utah

Collapse is based on a vertical depth of 6256 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

43013510650000 GMBU 2-36-8-15H Well name:

NEWFIELD PRODUCTION COMPANY Operator:

Production Liner Project ID: String type:

43-013-51065

DUCHESNE COUNTY Location:

Max anticipated surface

Design parameters: Minimum design factors: **Environment:**

Body yield:

H2S considered? Collapse Collapse:

74 °F Mud weight: 9.000 ppg Design factor 1.125 Surface temperature: 160 °F Bottom hole temperature: Design is based on evacuated pipe.

Temperature gradient: 1.40 °F/100ft

No

Minimum section length: 1,000 ft

1.60 (B)

Burst:

1.00 Design factor

Burst

pressure: 1,513 psi Liner top: 6,571 ft Internal gradient: 0.220 psi/ft Directional Info - Build & Hold Tension: Kick-off point Calculated BHP 2,857 psi 8 Round STC: 1.80 (J) 5735 ft 1.80 (J) Departure at shoe: 4636 ft 8 Round LTC:

1.60 (J) Maximum dogleg: 0 °/100ft Buttress: No backup mud specified. Inclination at shoe: 92.02° Premium: 1.50 (J)

Tension is based on air weight. Neutral point: 0 ft

Run	Segment		Nominal		End	True Vert	Measured	Drift	Est.
Seq	Length	Size	Weight	Grade	Finish	Depth	Depth	Diameter	Cost
	(ft)	(in)	(lbs/ft)			(ft)	(ft)	(in)	(\$)
1	4071	4.5	11.60	P-110	LT&C	6111	10671	3.875	19614
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
_	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(kips)	(kips)	Factor
1	2857	7580	2.653	2889	10690	3.70	-1.7	279	99.99 J

Prepared Helen Sadik-Macdonald Div of Oil, Gas & Mining by:

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 7,2012 Salt Lake City, Utah

For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 6111 ft, a mud weight of 9 ppg The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

From: Jim Davis

To: APD APPROVAL

CC: mcrozier@newfield.com; teaton@newfield.com

Date: 2/28/2012 12:57 PM

Subject: Two APD approvals for Newfield

The following wells have been approved by SITLA including arch and paleo clearance.

4301351065 GMBU 2-36-8-15H 4304752190 GMBU 2-36-8-17H

-Jim

Jim Davis Utah Trust Lands Administration jimdavis1@utah.gov Phone: (801) 538-5156

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY

Well Name GMBU 2-36-8-15H

API Number 43013510650000 APD No 4923 Field/Unit MONUMENT BUTTE

Location: 1/4,1/4 NWNE Sec 36 Tw 8.0S Rng 15.0E 934 FNL 2061 FEL

GPS Coord (UTM) 570052 4436865 Surface Owner

Participants

Tim Eaton- Newfield Exploration, Mark Jones- DOGM, Chris Jensen- DOGM, Forrest Bird - DOGM

Regional/Local Setting & Topography

this location is approximately 11.7 miles Southwest of Myton, Utah nearly 1 mile East of the Ouray Indian reservation boundary.

Surface Use Plan

Current Surface Use

Wildlfe Habitat

New Road
Miles

Well Pad

Src Const Material Surface Formation

0.048 Width 200 Length 400 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

salt brush and russian thistle.

No wildlife observed during investigations. Antelope, rabbit and prairie dogs are known to inhabit the area

Soil Type and Characteristics

gravely, silty sand

Erosion Issues Y

soil type is erodable

Sedimentation Issues Y

sediments can be transported to drainage areas bounding 2 sides of the pad

Site Stability Issues N

Drainage Diverson Required? N

pad is very near drainage but not inside of areas observed to be gullied or rilled

2/29/2012 Page 1

API Well Number: 43013510650000

Berm Required? Y

Erosion Sedimentation Control Required? Y

berming and other BMP's to be utilized as needed to control erosion and sedimetation to nearby drainages

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit

Site-Specific Factors	Site Ran	king	
Distance to Groundwater (feet)	100 to 200	5	/
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	300 to 1320	10	>> '
Native Soil Type	High permeability	20	•
Fluid Type	Fresh Water	5	•
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations	\' \' \'		
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	4 5	1 Sensitivity Level

Characteristics / Requirements

reserve pit is proposed to be 60 x 100 approximately 8 feet deep. Pit is located very near a drainage area. Care to be taken during construction and pit is to be lined

Liner Required? Y Liner Thickness 16 Pit Underlayment Closed Loop Mud Required? N Required? N

Other Observations / Comments

Chris Jensen 12/7/2011 Evaluator Date / Time

2/29/2012 Page 2 API Well Number: 43013510650000

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4923	43013510650000	SITLA	OW	S	No
Operator	NEWFIELD PRODUCTION COM	MPANY	Surface Owner-APD		
Well Name	GMBU 2-36-8-15H		Unit	GMBU (GRR	V)
Field	MONUMENT BUTTE		Type of Work	DRILL	
	NWNE 36 88 15E 8 0	24 FNI - 2	0061 FFI GPS Coord		

Location (UTM) 570052E 4436865N

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 280'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect ground water in this area.

Brad Hill **APD Evaluator**

1/18/2012 **Date / Time**

Surface Statement of Basis

The pad is bounded by a deep drainage area to the north and east. The proposed location for the reserve pit is very near (but is not within) the gullying of said drainage. Corner 7 is nearest any steep portion. Reserve pit is planned with a separation of 30 feet from that point. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from becoming a problem. Drainages should be diverted around and away from wellpad and access road. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Chris Jensen
Onsite Evaluator

12/7/2011 **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in

the reserve pit.

Surface The reserve pit shall be fenced upon completion of drilling operations. Surface The well site shall be bermed to prevent fluids from leaving the pad.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.

RECEIVED: February 29, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/17/2011 **API NO. ASSIGNED:** 43013510650000

WELL NAME: GMBU 2-36-8-15H

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) PHONE NUMBER: 435 646-4825

Permit Tech Review:

Engineering Review:

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNE 36 080S 150E

SURFACE: 0934 FNL 2061 FEL

BOTTOM: 0190 FSL 1180 FWL Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.07914 LONGITUDE: -110.17839 UTM SURF EASTINGS: 570052.00 NORTHINGS: 4436865.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21835 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State COALBED METHANE: NO

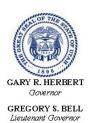
LOCATION AND SITING: **RECEIVED AND/OR REVIEWED:** R649-2-3. ✓ PLAT Unit: GMBU (GRRV) Bond: STATE/FEE - B001834 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 213-11 Water Permit: 437478 Effective Date: 11/30/2009 **RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement Intent to Commingle R649-3-11. Directional Drill Commingling Approved

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill 12 - Cement Volume (3) - ddoucet

25 - Surface Casing - hmacdonald 27 - Other - bhill

27 - Other - bhill 28 - Other2 - bhill API Well No: 43013510650000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: GMBU 2-36-8-15H API Well Number: 43013510650000

Lease Number: ML-21835 Surface Owner: STATE Approval Date: 2/29/2012

Issued to:

NEWFIELD PRODUCTION COMPANY, Rt 3 Box 3630, Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Surface casing shall be cemented to the surface.

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to surface as indicated in the submitted drilling plan.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

API Well No: 43013510650000

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well contact Carol Daniels OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

• Carol Daniels 801-538-5284 - office

• Dustin Doucet 801-538-5281 - office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
 - Well Completion Report (Form 8) due within 30 days after completion or plugging

Annound Dw.

API Well No: 43013510650000

Approveu by:

For John Rogers Associate Director, Oil & Gas

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Na Branden Arnold Phone Number 435-4 Well Name/Number GMBU 2-36-8-15H Qtr/Qtr NW/NE Section 36 Township 8 Lease Serial Number ML-21835 API Number 43-013-51065	101-0223 1
<u>Spud Notice</u> – Spud is the initial spudo out below a casing string.	ding of the well, not drilling
Date/Time <u>5/22/12</u> <u>9:00</u> A	M M PM
 Casing − Please report time casing rur times. Surface Casing Intermediate Casing Production Casing Liner Other 	n starts, not cementing RECEIVED MAY 2 2 2012 DIV. OF OIL, GAS & MINING
Date/Time <u>5/22/12</u> <u>3:00</u> A	M PM
BOPE Initial BOPE test at surface casing BOPE test at intermediate casing 30 day BOPE test Other	. .
Date/Time A	M PM
Remarks	

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Submitted By <u>Jesse Tatman / Alvin Nielsen</u> Phone Number 970-812-0015 Well Name/Number GMBU 2-36-8-15H Qtr/Qtr NW/NE Section 36 Township 8S Range 15E
Lease Serial Number <u>ML 21835</u> API Number 43-013-510650000
Spud Notice — Spud is the initial spudding of the well, not drilling out below a casing string.
Date/Time AM
Casing — Please report time casing run starts, not cementing times. Surface Casing Intermediate Casing Production Casing Liner Other
Date/Time AM
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other RECEIVED MAY 3 0 2012 DIV. OF OIL, GAS & MINING
Date/Time <u>5/29/2012</u> <u>15:00</u> AM ☐ PM ⊠

Remarks <u>Capstar# 328 will be moving from the GMBU 2A-32T-8-17H to the GMBU 2-36-8-15H. Should be testing Bops by 15:00 hrs on 5/29/2012</u>

STATE OF UTAH DIVISION OF OIL, GAS AND MINING **ENTITY ACTION FORM -FORM 6**

OPERATOR: NEWFIELD PRODUCTION COMPANY

ADDRESS: RT. 3 BOX 3630

MYTON, UT 84052

N2695 OPERATOR ACCT. NO.

05/30/12

Production Clerk

ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	au	WE SC	LL LOCAT		COUNTY	SPUD DATE	EFFECTIVE DATE
В	99999	17400	4301350492	GMBU E-17-9-17	SESE	7	98		DUCHESNE	5/24/2012	6/14/12
1	COMMENTS:	1	1001000-102	000 2 11 0 11	JOLOL	╁╌└		11	DOOFILORE	O/L-1/LO IL	10117119
AAECT I	COMMENTS.										***************************************
	GRRV	RHI:	SIThur	\(₂							
ACTION	CURRENT	NEW	API NUMBER	WELL NAME		WE	LL LOCAT	ON		SPUD	EFFECTIVE
CODE	ENTITY NO.	ENTITY NO.			QQ	SC	TP	RG	COUNTY	DATE	DATE
В	99999	17400	4301350493	GMBU B-18-9-17	SESE		98	17E	DUCHESNE	5/24/2012	6/14/12
	_	_									
	RRV	BHL:		Ce.							
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	- 00	WE SC	LL LOCATI	ON RG	COUNTY	SPUD DATE	EFFECTIVE DATE
						-					
В	99999	17400	4301350829	GMBU B-32-8-17	SWSE	29	88	17E	DUCHESNE	5/30/2012	6114112
		_	_								
		<u>tl:83</u>	2 nene							**	
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QQ	WE SC	TP	ON RG	COUNTY	SPUD DATE	EFFECTIVE DATE
0005	LITTE NO.					- 55		,,,,,	000.	7777	
В	99999	17400	4301350830	GMBU C-32-8-17	SWSE	ત્રવ	85	17E	DUCHESNE	5/30/2012	6114112
						L			!!		
											-
G	irrv f	SHL S	332 heny								
ACTION	CURRENT	11441	API NUMBER	WELL NAME			L LOCATI			SPUD	EFFECTIVE
CODE	ENTITY NO.	ENTITY NO.			<u> </u>	SC	TP	RG	COUNTY	DATE	DATE
1_										=10010010	اميلانيا
В	99999	17400	4301351065	GMBU 2-36-8-15H	NWNE	36	85	15E	DUCHESNE	5/22/2012	6114112
										AAUTID	PAITIA!
1	<u>م</u>	., с	1.150.							CONFID	PUIAL
G	<u>,,,,, </u>		WSW							AAIILIB	M (
	CODES (See instructions on bar I new entity for new well (single	•							Melanta.	l'asto	
	well to existing entity (group or							•	nnux	MORY	Tabitha Timothy

NOTE: Use COMMENT section to explain why each Action Code was selected.

B - well to existing entity (group or unit well) C - rom one existing entity to another existing entity

D - well from one existing entity to a new entity

E - ther (explain in comments section)

JUN 0 6 2012

RECEIVED

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	G	5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21835
SUNDR	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GMBU 2-36-8-15H
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013510650000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		ONE NUMBER: xt	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0934 FNL 2061 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 36 Township: 08.0S Range: 15.0E Meridian	: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Newfield respectf GMBU 2-36-8-15H. the well. The open with be replaced Cement will be horizontally as p	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all pully requests to change the cer The change in design is in the hole completion system that was by a cement slurry throughout brought back to surface. The woreviously submitted. An update ocumenting the changes menti	ment design on the horizontal portion of as originally planned the entire lateral. Well will be drilled sed drilling plan is	Approved by the
NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech	
SIGNATURE N/A		DATE 6/7/2012	

Newfield Production Company GMBU 2-36-8-15H NW/NE Sec 36 T8S R15E Duchesne County, UT

Drilling Program

1. Formation Tops

Uinta surface
Green River 1,655'
Garden Gulch member 3,849'

TD 6,111' TVD / 10,671' MD

2. Depth to Oil, Gas, Water, or Minerals

Base of moderately saline 127' (water)
Green River 3,849' - 6,111' (oil)

3. Pressure Control

Section BOP Description

Surface No control

Production The BOP and related equipment shall meet the minimum requirements of Onshore

Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc

for a 2M system.

A 2M BOP system will consist of 2 ram preventers (double or two singles), and a rotating head. A choke manifold rated to at least 2,000 psi will be used.

4. Casing

Donnistica	I	Interval		Condo	Condo		MW @	Frac Grad	Safety Factors		
Description	Тор	Bottom (TVD/MD)	(ppf)	Grade	Coup	Press @ Shoe	Shoe	@ Shoe	Burst	Collapse	Tension
Surface	0'	500'	24	J-55	STC	8.33	8.33	12	2,950	1,370	244,000
8 5/8	U	300	24	1-33	SIC	6.33	8.33	12	10.52	8.61	20.33
Production	0'	10,671'	20	N-80	LTC	8.33	0.0		9,190	8,830	428,000
5 1/2	U	6,571'	20	N-80	LIC	8.33	9.0		2.58	2.25	2.01
Production	6,571'	6,111'	11.6	P-110	BTC	8.33	9.0		10,690	7,560	279,000
4 1/2	0,371	10,671'	11.0	P-110	ыс	6.33	9.0		5.25	3.36	5.27

A tapered string of production casing will be run. A 7-7/8" hole will be drilled for the 5-1/2" casing in the vertical and curve sections of the well. A 6-1/8" hole will be drilled for the 4-1/2" casing in the lateral section of the well.

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

RECEIVED: Jun. 07, 2012

All collapse calculations assume fully evacuated casing with a gas gradient All tension calculations assume air weight of casing Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

5. Cement

Job	Hole Size Fill Slurry Description		ft ³	OH excess	Weight	Yield	
JOD	Hole Size	FIII	Sturry Description	sacks	OH excess	(ppg)	(ft ³ /sk)
Surface	12 1/4 500' Class G w/ 2% KCl + 0.25 lbs/sk Ce		Class G w/ 2% KCl + 0.25 lbs/sk Cello	237	15%	15.8	1.17
Surface 12 1/4 500'		300	Flake	203	1370	13.6	1.1/
Production	7 7/8	3,849'	Premium Lite II w/ 3% KCl + 10%	767	15%	11.0	3.53
Lead	7 7/6	3,049	bentonite	217	1370		3.33
Production	7.7/9	C 9221	50/50 Poz/Class G w/ 3% KCl + 2%		150/	14.2	1.24
Tail	7 7/8	6,822'	bentonite	1096	15%	14.3	1.24

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

The production string will be cemented throughout the lateral and cement will be brought to surface

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 15% excess.

6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u> <u>Description</u>

Surface - 500'

An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.

500' - TD

A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 9.0 ppg.

7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the top of the Garden Gulch formation. A Gamma Ray log will be run from TD to surface.

RECEIVED: Jun. 07, 2012

A cement bond log will be run from the port collar to the cement top behind the production casing. (cemented interval)

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.43 psi/ft gradient.

$$10,671' \text{ x} \quad 0.43 \quad \text{psi/ft} = 4622 \quad \text{psi}$$

No abnormal temperature is expected. No H₂S is expected.

9. Other Aspects

The well will be drilled vertically to a kick-off point of 5,735'.

Directional tools will then be used to build to 92.02 degrees inclination.

The hole size in the lateral will be reduced to 6-1/8". The lateral will be drilled to the bottomhole location shown on the plat.

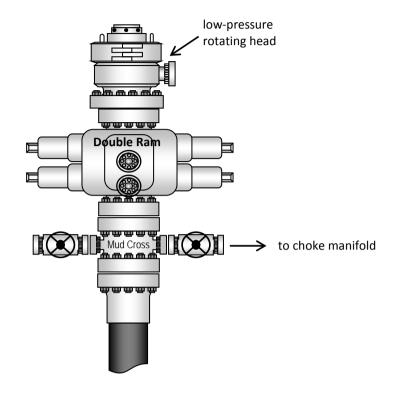
A tapered string of production casing will be run in the well, with 5-1/2" casing in the vertical and curve portions and 4-1/2" casing in the lateral portion.

The lateral will be cemented to provide multi-stage frac isolation.

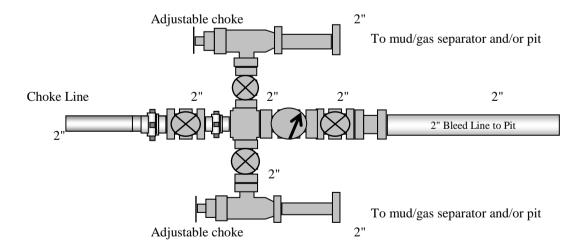
Newfield requests the following Variances from Onshore Order # 2:

 Variance from Onshore Order 2, III.E.1
 Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

Typical 2M BOP stack configuration



Typical 2M Choke Manifold Configuration



STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

			- A			
UU	V	13	LEASE	DESIGN.	TION A	ND SERIAL NUMBER:

	DIVISION OF OIL, GAS AN	DIMINING WEERS	UFFAH STAITE ML-22825
SUNDRY	Y NOTICES AND REPO	ORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	rill new wells, significantly deepen existing wells be tal laterals. Use APPLICATION FOR PERMIT TO		7. UNIT OF CA AGREEMENT NAME: GMBU
1. TYPE OF WELL: OIL WELL	8. WELL NAME and NUMBER: GMBU 2-36-8-15H		
2. NAME OF OPERATOR:	GAS WELL OTHER		9. API NUMBER:
NEWFIELD PRODUCTION COM	MPANY		4301351065
3. ADDRESS OF OPERATOR:		PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
Route 3 Box 3630	CITY Myton STATE UT	ZIP 84052 435.646.3721	GREATER MB UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE:	•		COUNTY: DUCHESNE
OTR/OTR. SECTION. TOWNSHIP. RANGE	. MERIDIAN: , 36, T8S, R15E		STATE: UT
11. CHECK APPRO	PRIATE BOXES TO INDICATI	E NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF BUTCHE	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will	CASING REPAIR	■ NEW CONSTRUCTION	TEMPORARITLY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND ABANDON	☐ VENT OR FLAIR
X SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/STOP)	WATER SHUT-OFF
Date of Work Completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	X OTHER: - Spud Notice
05/23/2012	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
On 5/22/12 MIRU Ross #2	OMPLETED OPERATIONS. Clearly show a 19. Spud well @10:00 AM. Drill 515' on the with 235 sks of class "G" w/ 2% Ca the topit. WOC.	of 12 1/4" hole with air mist. TIH W/	12 Jt's 8 5/8" J-55 24# csgn. Set @
			RECEIVED
			JUL 0 3 2012
			DIV. OF OIL, GAS & MINING
NAME (PLEASE PRINT) Branden Arnol	d	TITLE	
SIGNATURE Sasku	AND	DATE05/24/2012	

(This space for State use only)

Casing / Liner Detail

Well	GMBU 2-3	36-8-15H								
Prospect	Monumen	t Butte	and the property of the same o	en a plant materia. Displant a trans displant di di di di spirita di displantica di di di di di spirita di disp		والمرابع المرابع	to Activity Middle Williams Reference of the Control of the Contro			
Foreman										
Run Date:										
String Type	Surface, 8.625", 24#, J-55, STC (Generic)									
cumy type	Surface, C).UZU , Z+m	- 0-00, O1 C	(00:10:		ya na galania manda isa ngan-isa kananasa na daga amana	Aver-chemistry is halderly = 13 proper			
			- [Detail F	rom To	p To Bott	om -			
Depth	Length	JTS				Descriptio	n	OD	ID	
516.37			13' KB							
516.95	1.42		Wellhead							
			Cutt Off					8.625		
518.37	-2,00	-1								
13.00	460.75	12	8 5/8 Casir	ng ————————————————————————————————————	8.625					
473.75	42.30	1	Shoe Jiont	Shoe Jiont						
516.05	0.90	1	Guide Sho	е	8.625					
516.37			-							
					Cement	Detail				
Cement Com	pany: BJ	•			Cement	Detail				
	of Sacks Wei	ght (_{ppg}) Yi 15.8 1.	eld Volum 17 274		Class G+2%	De 6kcl+.25#CF	scription - Slurry Class and Additiv	es		
Stab-In-Job?		No					Cement To Surface?	Ye	98	
BHT:		0					Est. Top of Cement:	0		
nitial Circulation	on Pressure:		Plugs Bumped? Yes							
nitial Circulati			Pressure Plugs Bumped: 483							
Final Circulation	n Pressure: Floats Holding? No									
Final Circulation	n Rate:						Casing Stuck On / Off Bottom?	. N		
Displacement		Wate	er				Casing Reciprocated?	N		
Displacement	Rate:						Casing Rotated?	N		
Displacement	Volume:	29.3 CIP: 14:03								
Mud Returns:			and the processor from a graphy of the state of				Casing Wt Prior To Cement:			
	pe And Placem					·	Casing Weight Set On Slips:			
Middle of first,	top of second	and third for a	total of three	٠						

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21835
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GMBU 2-36-8-15H
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013510650000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-482	PHONE NUMBER: 25 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0934 FNL 2061 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNE Section: 3	HIP, RANGE, MERIDIAN: 36 Township: 08.0S Range: 15.0E Mer	ridian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
·	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
✓ DRILLING REPORT	L TUBING REPAIR		☐ WATER DISPOSAL ☐
Report Date: 7/29/2012		SI TA STATUS EXTENSION	APD EXTENSION
.,20,20.2	WILDCAT WELL DETERMINATION	OTHER	OTHER:
The above well v	COMPLETED OPERATIONS. Clearly show was placed on production coduction Start Sundry rese	on 7/29/2012 at 13:30	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 05, 2012
NAME (PLEASE PRINT) Kaci Deveraux	PHONE NUM 435 646-4867	BER TITLE Production Technician	
SIGNATURE		DATE	
N/A		10/5/2012	

	STATE OF UTAH		FORM 9					
1	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21835					
SUNDF	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.	deepen existing wells below ntal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)					
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GMBU 2-36-8-15H					
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	OMPANY		9. API NUMBER: 43013510650000					
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-4825	PHONE NUMBER: 5 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE					
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0934 FNL 2061 FEL			COUNTY: DUCHESNE					
QTR/QTR, SECTION, TOWNS!	HIP, RANGE, MERIDIAN: 36 Township: 08.0S Range: 15.0E Merio	dian: S	STATE: UTAH					
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION						
	ACIDIZE	ALTER CASING	CASING REPAIR					
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME					
.,	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE					
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION					
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK					
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION					
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON					
-	TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL					
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION					
7/29/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:					
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above well was placed on production on 7/29/2012 at 13:30 hours. Production Start Sundry resent 10/05/2012.								
NAME (PLEASE PRINT) Kaci Deveraux	PHONE NUMB 435 646-4867	BER TITLE Production Technician						
SIGNATURE N/A		DATE 10/5/2012						

Daily Activity Report

Format For Sundry GMBU 2-36-8-15H 5/1/2012 To 9/30/2012

7/4/2012 Day: 1

Completion

Stone #8 on 7/4/2012 - Nu Frac Valve 5K Bop Stack CBL - Saftey Meeting JSA MINU 7 1/16 10K frac Valve ,function test ,NU 7 1/16 10K x 5K crossover Spool ,7 1/16 Shafer BOP dressed 2 Sets 2 3/8 pipe rams function test ,NU 7 1/16 flow crross w/ 2 2 1/16 5K Valves on each side Srew in 2 3/8 n-80 4.7# test sub into hanger shut and test #1 pipe rams leak in well head packing glands fix Retest # 1 rams 250 low 4800 high good test , test #2 rams 250 low 4800 high Good test ,test inside Kill valvle 250 low 4800 high good test, test out side kill valve 250 low 4800 high , test pit side inside flow line valve 250 low 4800 high good test,test out side pit side valve 250 low 4800 high good test, test outside loc side valve 250 low 4800 high good test Ru perforators Wireline,MI Spot Frac Tanks , - Safety meeting JSA RU wire test lubricator 250 low 4800 high good test, Rih W CCL/GR/CBL Tool String To 6456, Log From 6381.5 to Surface,Secure well SDFN

Daily Cost: \$0

Cumulative Cost: \$28,623

7/5/2012 Day: 2

Completion

Stone #8 on 7/5/2012 - Pressure test csg. MIRUSU. Spot pipe racks & hydraulic catwalk. Talley & PU BHA for perforating & 187- jts PH-6 5.95# tbg. - Talley & PU BHA & Tbg as follows: 3 3/4" bear claw bit, bit sub, Bypassing abrasive perforator w/ 3 ports 120° phase, hydraulic disconnect, dual back pressure valve, X-over sub, 1- jt 2 3/8" PH6 5.95# tbg, R profile nipple, 148- jts 2 3/8" PH-6 5.95# tbg, R profile nipple, 39- jts 2 3/8" PH-6 5.95# tbg. Fill tbg plus 5 BW after each 1000' of tbg. EOT @ 5930'. SWIFN. - Talley tbg. RU flowback line to pit for displacement. - RU hot oil truck & pressure test unit. Pressure csg w/ hot oil unit to 4500 psi. Pressure csg w/ test unit to 9900 psi. Held pressure test for 30 minutes. Bleed pressure off csg. - RU WOR. Spot pipe racks & hydraulic cat walk. - Unload tbg & NU Washington head.

Daily Cost: \$0

Cumulative Cost: \$48,438

7/6/2012 Day: 3

Completion

Stone #8 on 7/6/2012 - Continue PU tbg. Tag fill @ 10,343'. Clean out to 10,475'. Pump 50 bbl polymer sweep & circulate well clean w/ 360 BW. Abrasive perforate stage 1. Circulate well clean. LD 90- jts tbg. - LD -90 jts 2 3/8" 5.95# PH-6 tbg. (Continue LD tbg, need 120- jts out to pump next polymer sweep & circulate well clean) - TIH to PBTD @ 10,475'. Drop ball to shift by-pass on abrasive perforator to open direction of flow through bit. Pump 72 BW down tbg, attempting to seat ball. Did not see ball seat. Drop second ball to shift by-pass. Pump 8 BW and ball seated. Circulate well clean w/ 360 BW (last 80 bbls treated w/ Alpha 452 @ 1 gpt & Claycare @ 1 gpt) w/ ave rate of 4.7 BPM & ave tbg pressure of 6100 psi. - Pump ball down & seat w/ 36 BW. Pump 3 abrasive sand slurries of 800#s sand each @ 1/2 PPG totaling 38 bbls each @ rate of 2.0 BPM, 6471 psi. PUH & abrasive perforate stage 1 @ 10,465', PUH 5' and perf @ 10460', PUH 5' & perf @ 10,455' w/ 3 SPF 120° phasing. Held 1500 psi back pressure on tbg-csg annulus during abrasive perforating. - Held safety meeting w/ rig crew, Baker Hughes pressure pump crew, TTS & RNI. Discussing use of hydraulic catwalk, working around pressure, smoking policys, use of ground guides & PPE. Continue PU tbg, total of 328-

jts 2 3/8" 5.95# PH-6 tbg. Tag fill @ 10,343'. Fill tbg after each 1000' ran & perform weight checks. Weight check on bottom- 28K PU & 18K SO. - Mix & pump 50 bbl polymer sweep. Circulate well clean w/ 360 BW w/ ave rate of 4.7 BPM & ave pressure 4100 psi. Rotating tbg @ 130 RPMs & reciprocating while circulating. - Clean out to PBTD @ 10,475' (20' shallow of csg talley). - RU power swivel & BJ pump truck and pump lines. Pressure test pump lines to 6000 psi. - RD power swivel. Drop ball for hydraulic by-pass on abrasive perforator. RU Baker Hughes pump line to tbg.

Daily Cost: \$0

Cumulative Cost: \$130,499

7/7/2012 Day: 4

Completion

Stone #8 on 7/7/2012 - Continue LD tbg. Circulate well clean w/ 20 bbl polymer sweep & 270 bbls wtr in heal of lateral. Establish injection rate w/ 50 BW, 4 BPM @ 3820 psi. Cont. LD tbg & BHA. Attempt pumping down CBL w/o success. RDMOSU. Remove equip not needed for frac - NU 10K 7 1/16" Weatherford frac stack as follows: 10K manual frac valve (existing), 10K HCR frac valve, 10K flowcross w/ double 2 1/16" gate valves on each end & 10K manual frac valve. RU flowback equipment to frac tree. Pressure test each component of frac equipment & J&A flowback equipment w/ low of 250-300 psi for 5 min & high test of 10,000 psi for 10 min. - Load tbg on trailers and return to Runners yard. Move power swivel, pipe racks & hydraulic catwalk off location. Clean location. RDMOSU. - RD WLT & Baker Hughes pressure pumping equipment. ND 5K flowcross & double pipe rams. - RIH w/ CBL tools. Weight check @ 6000', 625 SO & 775 PU. Continue RIH to 6405'. Baker started pumping @ 1 BPM. 7 BW fill csg. Pressure was climbing fast. Reduce rate to 1/2 BPM , pressure @ 4870 psi. Pump CBL to 6468' & over pressure @ 5000 psi. Made several attempts to pump into well w/o success. Discuss options w/ engineering and decision was made to NU 10K frac stack and attempt again following day. POH w/ WL & LD CBL. - MIRU WLT. Held safety & operations meeting w/ Stone rig crew, The Perforators WL crew & Baker Hughes pump crew. Discussing operations of pumping down CBL tools, smoking policies, PPE, Working around pressure & over head loads. PU CBL tools. Pressure test lubricator to 5000 psi for 5 min. - Continue LD 2 3/8" PH-6 5.95# tbg. 120- jts out w/ EOT @ 6715'. - MIRU WLT. Wireline Engineer noticed issues w/ computer system. - ND washington head. Rack out power swivel. - Continue LD 2 3/8" 5.95# PH-6 tbg & BHA. Bear claw bit still looked new. LD TTS abrasive perforator. - Change tower crew on rig. RU Baker Hughes pump line to csg. Pressure test lines to 6000 psi. Close both sets of pipe rams. Establish injection rate w/ 50 BW maintaining injection rate of 3.9 BPM @ 3820 psi w/ last 10 bbls. Did not see a break down, started injecting from beginning. Open well to pit and bleed down. Monitor well for flow (no flow). - RU Baker Hughes pump line to tbg. Pressure test line to 10,000 psi. Pump 20 bbl polymer sweep & circulate well clean w/ 270 bbls water w/ 1 gpt clay treat & 1 gpt Alpha 452. Ave rate of 5.7 BPM & aver pressure of 5400 psi. - Wait for different WLT to arrive.

Daily Cost: \$0

Cumulative Cost: \$158,507

7/8/2012 Day: 5

Completion

Rigless on 7/8/2012 - RU Baker Hughes pump trucks & Perforators WLT. Establish injection rate of 11.3 BPM @ 6630 psi w/ 72 BW. PU & RIH w/ CBL tools. Pump logging tools down w/ Baker Hughes from 6400' to 10,450'. Record CBL from 10,450 to 6000'. - Held safety & operations tailgate meeting. Discuss the objectives and procedure of tasks. Pressure test WL lubricator to 9500 psi. RIH w/ CCL & CBL tools to 6400'. Started pumping down w/ 7.1 BPM @ 6100 psi-150 FPM & ended w/ 10.1 BPM @ 6500 psi-60 FPM. WL stopped @ 10,450'. Kick out Baker Hughes pumps. 600 BW used for pump down. RD Baker Hughes pumping equipment. - PU WL lubricator & BOPs. PU CCL & CBL tool string. Function test WL BOPs. - 3425 psi on well. Begin POOH from 10,450' while recording CBL through lateral. Stop recording @ 6000'. Log

correlated to Weatherford Compensted Photo Density Dual Neutron log ran on 6/6/12. 5 1/2" X 4 1/2" X-over sub @ 6164'-6178.5' WL depth. POOH w/ WL & LD tools. RD WLT & crane. SWIFN. - MIRU Baker Hughes cement pump truck & frac pump truck. MIRU Perforators WLT. - Held safety meeting w/ Baker Hughes pumping service crew & Perforators WL crew. Discuss PPE, smoking policies, Evacuation plan & Working around pressure. 8:15 AM- pressure test lines to 9500 psi. 8:30 AM- Open well, 230 psi. Establish injection rate w/ 72.3 total bbls ending w/ 6630 psi @ 11.3 BPM.

Daily Cost: \$0

Cumulative Cost: \$205,281

7/10/2012 Day: 6

Completion

Rigless on 7/10/2012 - Aaron Manning day time supervisor, Don Hernandez night time Supervisor, RU frac equipment and frac stg one - Wait for Pinnacle to get tools in the hole on the 6-36-8-15. - Pressure test pump lines to 9939 psi. Set pop off on Baker Hughes line. Set @ 9637 psi. N2 bottle has 2600 psi. - Held safety meeting w/ all parties. Discussion on overhead loads, working around pressure, no cell phone/radio use while perforating guns are caped and above 300' from surface, PPE, smoking policies and communication. - Stage #1, Perfs @ 10,465¿/ 10,460¿/ 10,455¿ w/ 3 SPF 120° phase abrasive perfs. Test N2 kick out @ 9630 psi. 2600 psi on bottle. Open well, 1503 psi. Broke @ 6279 psi, 4.2 BPM w/ 7.1 bbls. Shut down ISIP: 4750 psi. FG: 1.2 1 min SIP 4570 psi, 4 min SIP 3375 psi. Stage 20.6 bbls 15% HCL @ 1403 psi, 8.8 BPM. Stage 100 mesh .75# @ 8640 psi, 35.8 BPM. Stage sweep @ 8750 psi, 35.4 BPM. Stage .75# 30/50 sand @ 8680 psi, 35.7 BPM. Stage 15% HCL sweep @ 8710 psi, 35.5 BPM. Shut down to fix leak. Stage 1# 100 mesh @ 8670 psi, 37.7 BPM. Stage sweep @ 8830 psi, 37.5 BPM. Stage 1.25# 30/50 sand @ 8830 psi, 37.3 BPM. Stage sweep @ 8560 psi, 37.3 BPM. Stage 1# 100 mesh @ 8650 psi, 44.8 BPM. Stage sweep @ 8710 psi, 44.5 BPM. Stage 1# 30/50 @ 8670 psi, 44.5 BPM. Stage sweep @ 8950 psi, 47.7 BPM. Extend pad w/ csq volume to see if pressure would line out. Pressured out w/ 230.1 bbls into flush (30 bbls over flush). 20,475#s 30/50 white sand. 4,800#s 100 mesh white sand. Treated w/ ave rate of 41.4 BPM w/ max rate of 48.8 BPM. Ave pressure of 8741 psi & Max pressure of 9724 psi. 1502 BWTR. Open well up for flowback. - Held Safety meeting w/ all parties due to Baker Hughes shift change. Attempt pumping into perfs w/o success. Pressured out 17 bbls into pumping @ 4 BPM. Attempted to surge the well by pumping into it and surging it off. Did this 9 times pressured up to 9600psi everytime. Tried pumping 2.3bbls per min. pressured right up to 9600psi. RD Pure energy wireline and half the frac equipment and waiting on coil unit. - Flowed 89 bbls in 37 minutes. Rate had slowed to .9 BPM w/ <100 psi flowing pressure. Shut well in for 15 min to attempt pressure build. Pressure built to 2275 psi. Open for flowback. Flowback total of 119 bbls w/ trace of sand. Shut in well. - MIRU Baker Hughes frac equipment, Pure energy WLT, 4-G torque and test, J&A flowback, Go & Flow water transfer system & Pinnacle Seismic monitoring equipment.

Daily Cost: \$0

Cumulative Cost: \$207,081

7/11/2012 Day: 7

Completion

Rigless on 7/11/2012 - Aaron Manning daytime supervisor, Don Hernandez night supervisor. RU Coil to cleanout the wellbore RD Coil and then RU frac equipment - Started brinig coil into the vertical to drop another ball to open up the wash nozzle again to cleanout to 10400'. - Coil tbg was on depth (10365')to start perfing the first set of perfs on stg two at 2112. At 2115 started pumping sand at 2bpm @5592psi. Sand was at the jetys @ 2140 to start cutting the perfs at 4700psi. Finished first set of perfs at (10365') 2202. Moved up to the second set of perfs (10315') at 2005. Finished second set at 2219. moved in to place for the thrid set of perfs (10265') at 2225. Finished third set at 2255.pumped a sweep at 2310.tried to cleanout to 10400' again couldnat get there sand was in the way. - put the ball in place to open the jets

@ 2045 pumping at 2.5bpm. Dropped pump rate to 1bpm ball was on at 2100 - Held safety meeting w/personnel on location to RU Coil unit - Disconnect lubricator from well control stack, MU BHA as follows: TTS 2" coil connector/back pressure valve 1.68' (OD 2.88" ID 1"), Hydraulic disconnect 2.24' (OD 2.88") W/ 3/4" ball seat, Double piston bypassing spiral abrasive perforator (set for 3 SPF 120° phasing) 3.55' (OD 3.5" ID .53") & High velocity wash nozzle .50' (OD 2.88"). Over all tool length 8.00'. Pressure test lubricator to 8000 psi. - MU CT connector/back pressure valve & pull test to 25K#s. MU injector & lubricator on well control stack and continue pressure tests. Pressure test pump & kill lines w/ low test of 250-300 psi for 5 min & high test of 8000 psi for 10 min. - RU Coil unit, RU Coil stack. Complete Newfield on site pre-job packet for PC3 operations (with variance on hydraulic choke manifold). Function test all rams w/ open, close, open and record times for each. Pressure test each component of well control stack w/ 250-300 psi low test for 5 min & high test of 8000 psi. Ground all equipment used for coil operations. Stab coil through injector head. - Open well. 1900 psi. RIH w/ CT @ 80' FPM in 5 1/5" csg. Pumping 3/4 BPM & returning 3/4 BPM. 2500' WHP 1875 psi & circulating pressure @ 2050 psi. 4500' WHP 1370 psi & CP 1600 psi w/ light sand in returns. On depth at 10400' @ 21:10

Daily Cost: \$0

Cumulative Cost: \$277,800

7/12/2012 Day: 8

Completion

Rigless on 7/12/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. Used coil to cleanout and perf stg two. MIRU frac equipment - Started pumping on trhe well at 2.5 bpm working our way up to 10bpm. We played with the rate up and down according to the psi on the well. Shut down after pumping 249.1 bbls. Opened the well back on a 20 choke flowing back at 350psi 45 miniutes later the well was flowing back at 500psi.We flowed the well for an hour then pumped on it at 5-6bpm at 8200psi. We surged the well and tried to run into it 5 times then pumped back into it at 5-6bpm. Dicided to call in the coil unit again. - Stage #2, Perfs @ 10,365¿/ 10,315¿ & 10,265¿ w/ 3 SPF 120° phase abrasive perfs. Test N2 kick out @ 9900 psi. 2313 psi on bottle. Open well, 1301 psi. Broke @ 7374 psi, 4.3 BPM w/ 9.2 bbls. Stage 19.7 bbls 15% HCL @ 7400 psi, 9.1 BPM. Stage 100 mesh .75# @ 6890 psi, 33 BPM. Stage sweep @ 7250 psi, 34.7 BPM. Stage .75# 30/50 sand @ 7330 psi, 36 BPM. Stage 15% HCL sweep @ 7550 psi, 37.5 BPM. Stage 1# 100 mesh @ 8100 psi, 39 BPM. Stage sweep @ 8450 psi, 39 BPM. Stage 1.25# 30/50 sand @ 8700 psi, 40.5 BPM. Stage flush @ 9600 psi, 8.2 BPM. Screen out w/ 27 bbls into flush. 13,306#s 30/50 white sand. 3,240#s 100 mesh white sand. Treated w/ ave rate of 32.9 BPM w/ max rate of 41.1 BPM. Ave pressure of 8344 psi & Max pressure of 9931 psi. 832 BWTR. Open for immediate flowback @ 2 BPM w/ heavy sand in returns. Flowed the well back for an hour and twenty minutes. - Held safety meeting w/ Baker Hughes, Protechnics, Pinnacle, J&A, Go & flow, 4G, Halliburton & Pure WL. Topics: Overhead loads, pressurized iron, Radio silence & PPE. - Bringing coil tbg to 6100' which is back in to the vertical to drop a ball to open back up the wash nozzle to cleanout to 10400' - RD CUDD pump truck. MIRU N2 pump truck. Blow coil dry w/ N2. RD CUDD CT unit and well control stack. - Establish injection rate w/ CUDD pump truck. Ending w/ 6 BPM @ 7450 psi. Used total of 25 BW for injection test. - Pumped a sweep and at 0420 Coil started out of the hole to get back to surface. Bump up coil & shut in. - MIRU Baker Hughes frac equipment, Pure WLT, Protechnics & Pinnacle.

Daily Cost: \$0

Cumulative Cost: \$375,687

7/13/2012 Day: 9

Completion

Rigless on 7/13/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. RU Cudd CT unit. cleanout the well and abrasive perforate stage 3. - Coil Started in the well got in to the horizontal at 2115 slow speed down to 40fpm. Coil got to 6789'at

2200 and had a hydralic pump go down so we had to pull out of the hole. On surface at 2330. Waiting on cudd to figure out their hydralic problem - Cudd encountered computer issues. - Check pressure on well, 1850 psi. Equalize well/lubricator pressure. Open well. - Held safety meeting with personnel on location and RU CUDD Coil unit. Complete Newfield on site pre-job packet for PC3 operations (with variance on hydraulic choke manifold). Function test all rams w/ open, close, open and record times for each. Pressure test each component of well control stack w/ 250-300 psi low test for 5 min & high test of 8000 psi. Ground all equipment used for coil operations. Stab coil through injector head. MU CT connector/back pressure valve & pull test to 25K#s. - Pressure test coil connector to 2500 psi. MU injector & lubricator on well control stack and continue pressure tests. Pressure test pump lines & kill lines to 8000 psi for 10 min. - Cudd pump truck had pump seats that had been washed out due to pumping sand for abrasive perforating. Replacement parts were not correct. Wait for replacement pump to arrive on location & RU pump to pump lines. - Disconnect lubricator from well control stack. MU BHA as follows: TTS 2" coil connector/back pressure valve 1.68' (OD 2.88" ID 1"), Hydraulic disconnect 2.24' (OD 2.88") W/ 3/4" ball seat, Double piston bypassing spiral abrasive perforator (set for 3 SPF 120° phasing) 3.55' (OD 3.5" ID .53") & wash nozzle .50' (OD 2.88"). Over all tool length 8.00'. Pressure test lubricator to 8000 psi.

Daily Cost: \$0

Cumulative Cost: \$410,695

7/14/2012 Day: 10

Completion

Rigless on 7/14/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. Cleanout the well and abrasive perforate stage 3. RD Cudd CT unit. - RD Cudd pump truck. Spot Cudd N2 truck. Blow coil dry w/ N2. RD Cudd CT unit. - Establish injection rate of 7.4 bpm @ 5400 psi w/ total of 20 bbls. - Cudd is working on their hydraulic issues. -Started to pull up to start jetting. Circulate bottoms up. Dropped the ball to open the jetting tool. Pulled up to 10176' to start jetting the perfs in stage #3 @ 10174'-10176', abrasive perfs 3 SPF 120 degree phasing 3, 10124'-10126' abrasive perfs 3 SPF 120 degree phasing, 10074'-10076' abrasive perfs 3 SPF 120 degree phasing. Each cluster of abrasive perfs were done in 1' intervals @ 3 SPF,120° phasing w/ 800#s of 100 mesh white sand pumped in 36 bbls of fluid @ 1/2 ppg w/ rate of 1.5 BPM. Pumped 10 bbl pad & 20 bbl polymer sweep following last sand stage. - Coil Started back in the hole. Tagged sand at 0449 @ 8949' Washed down to 10265' @ 0610. - Attempt to clean out below perfs after polymer sweep had been pumped out EOT w/o success. Short trip CT to 5800' to clean out lateral @ 40 fpm, pumping 1 1/2 BPM... Drop ball to open bypass on TTS perforator and return flow to wash nozzle. Increase pump rate to 3 BPM. RIH w/ CT & clean out to 10,200'. Pump 20 bbl polymer sweep. After sweep had exited EOT, POOH w/ CT @ 40 fpm through lateral. Pump additional 20 bbl polymer sweep to be exiting EOT through heel of lateral. Continue POOH w/ CT @ 80 fpm @ 6100' (5 1/2" csg). Bump up @ 6:30 PM.

Daily Cost: \$0

Cumulative Cost: \$433,225

7/15/2012 Day: 11

Completion

Rigless on 7/15/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. RU Frac Equipment and frac stage #3. Continue to Perf and frac - PU CCL, 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 19:30. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 11 BPM @ 3430 psi. Pump WL down to 9695' & stop pumping. PUH & set Halliburton 10K CFP @ 9,662'. PUH & perforate stage #6 @ 9608-9.5', 9565-66.5' & 9505-06.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - PU CCL, 2 3/4"

slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 9987 psi for 5 min. Open well @ 23:20. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 3.5 BPM and increase rate slowly until WL was able to maintain 200 fpm, 8.5 BPM @ 3600 psi. Pump WL down to 9433' & stop pumping. PUH & set Halliburton 10K CFP @ 9457'. PUH & perforate stage #7 @ 9315-16.5'. 9365-66.5' & 9415-16.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL¿ - Stage #6, Perfs @ 9608-9.5', 9565-66.5' & 9505-06.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2470 psi. 10 bbls to land ball. Broke @ 7610 psi, 13.2 BPM. Shutdown ISIP 3400 psi .98 psi/ft FG. 1min 3050 psi, 4min 2870 psi. 24 perfs open. Seat ball 10 bpm 7990psi Stage 40 bbls 15% HCL 9.8bpm 3520psi Stage Slickwater Stage 0.5# 100 mesh 39.3bpm 6700psiStage Slickwater 43.4bpm7320psiStage 0.5# 30/50 52.9bpm 7400psiStage Slickwater 57.7bpm 8000psiStage HCL 57.7bpm 8000psiStage Slickwater 57.7bpm 8000psiStage 0.5# 100 mesh 60.5bpm 8090psiStage Slickwater 60.3bpm 8000psiStage 0.5# 30/50 60.4bpm 7870psiStage Slickwater 60.2bpm 7600psiStage 0.5# 30/50 60.3bpm 7440psiStage Slickwater 60.3bpm 7570psiStage 0.5# 100 mesh 60.3bpm 7570psiStage Slickwater 60.3bpm 7590psiStage 0.75# 30/50 60.3bpm 7590psiStage Slickwater 60.3bpm 7760psiStage 0.75# 30/50 60.3bpm 7710psiStage Slickwater 60.3bpm 7730psiStage HCL 60.3bpm 7730psiStage Slickwater 60.3bpm 7730psiStage 0.75# 100 mesh 60.3bpm 7970psiStage Slickwater 60.3bpm 7980psiStage 0.75# 30/50 60.5bpm 7760psiStage Slickwater 57.5bpm 7450psiStage 0.75# 30/50 60.5bpm 7670psiStage Slickwater 58.1bpm 7560psiStage 0.75# 100 mesh 59.2bpm 7910psiStage Slickwater 59.3bpm 7620psiStage 0.75# 30/50 59.3bpm 7650psiStage Slickwater 59.3bpm 7650psiStage 0.75# 30/50 59.3bpm 7650psiStage Slickwater 59.3bpm 7650psiStage 0.75# 100 mesh 59.3bpm Blew a hydraulic hose on the blender. Shut down for 5 minutes w/1200# of 0.75# 100 mesh in the pipe. Manually opened tub bypass on blender and flushed with CMG unit. Hydraulic hose was for a sand screw. Will cap and switch to the 3rd sand screw. Stage Flush 60.3bpm 29996#s 30/50 white sand. 4136#s 100 mesh white sand. Treated w/ ave rate of 58 BPM w/ max rate of 62 BPM. Ave pressure of 7680 psi & Max pressure of 8115 psi. 3250BWTR. SDISIP 3140 psi .94 psi/ft FFG. - Stage #5, Perfs @ 9835-36.5'/ 9795-96.5'¿/ 9695-96.5¿ w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2476 psi. Broke @ 6242 psi, 4.5 BPM w/ 12.7 bbls. Stage 40 bbls 15% HCL @ 6650 psi, 8.2 BPM. Shutdown ISIP 3098 psi 0.93 psi/ft IFG. 1min 2915 psi, 4min 2749 psi. Stage 100 mesh 0.5# @ 7080 psi, 37.6 BPM. Stage sweep @ 7590 psi, 43.5 BPM. Stage 0.5# 30/50 sand @ 7580 psi, 50.8 BPM. Stage 15% HCL sweep @ 8037 psi, 51.6 BPM. Stage 0.5# 100 mesh @ 7080 psi, 37.6 BPM. Stage sweep @ 7590 psi, 43.5 BPM. Stage 0.5# 30/50 sand @ 7580 psi, 50.8 BPM. Stage sweep @ 7980 psi, 50.8 BPM. Stage 0.5# 30/50 mesh @ 8000 psi, 51 BPM. Stage sweep @ 8120 psi, 50 BPM. Stage 0.5# 100 mesh @ 8010 psi, 50.7 BPM. Stage sweep @ 8040 psi, 51.9 BPM. Stage 0.5# 30/50 mesh @ 7840 psi, 56.2 BPM. Stage sweep @ 7820 psi, 58.3 BPM. Stage 0.5# 30/50 mesh @ 7860 psi, 58.3 BPM. Stage sweep @ 7870 psi, 59.5 BPM. Stage 15% HCL sweep @ 7650 psi, 61.8 BPM. Stage sweep @ 7610 psi, 61.6 BPM. Stage 0.75# 100 mesh @ 7780 psi, 61.6 BPM. Stage sweep @ 7820 psi, 61.2 BPM. Stage 0.75# 30/50 mesh @ 7640 psi, 61.7 BPM. Stage sweep @ 7650 psi, 61.7 BPM. Stage 0.75# 30/50 mesh @ 7710 psi, 61.7 BPM. Stage sweep @ 7340 psi, 61.7 BPM. Stage 0.75# 100 mesh @ 7650 psi, 61.7 BPM. Stage sweep @ 7510 psi, 61.5 BPM. Stage 0.75# 30/50 mesh @ 7250 psi, 61.5 BPM. Stage sweep @ 7300 psi, 61.9 BPM. Stage 0.75# 30/50 mesh @ 7260 psi, 61.9 BPM. Stage sweep @ 7060 psi, 62.2 BPM. Stage 0.75# 100 mesh @ 7120 psi, 62.3 BPM. Stage sweep @ 7810 psi, 61.6 BPM. Stage 0.75# 30/50 mesh @ 6890 psi, 61.9 BPM. Stage sweep @ 6890 psi, 62.1 BPM. Stage 1.0# 30/50 mesh @ 6870 psi, 62 BPM. Stage Flush @ 6480 psi, 60.4 BPM. 38,195#s 30/50 white sand. 3804#s 100 mesh white sand. Treated w/ ave rate of 59 BPM w/ max rate of 63 BPM. Ave pressure of 7140 psi & Max pressure of 8150 psi. 4802 BWTR. SDISIP 3073 psi 0.94 psi/ft FFG. - PU CCL, 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 2:45 PM. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 150-170 fpm, 11 BPM @ 7730 psi. Pump WL down to 9,850' & stop

pumping. PUH & set Halliburton 10K CFP @ 9,835'. PUH & perforate stage #5 @ 9835-36.5', 9795-96.5' & 9695-96.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Held safety meeting with all the personnel on location. RU Frac Equipment and Frac Stage #3.Pressure test pump lines to 9923 psi. Set pop off on Baker Hughes line. Set @ psi. N2 bottle has 2499 psi. - Wait for replacement pump from Baker Hughes. Fluid end was found to be cracked. -Baker Hughes crew change, Held safety meeting w/ Baker Hughes, Protechnics, Pinnacle, J&A, Go & flow, 4G, Halliburton & Pure WL. Topics: Overhead loads, pressurized iron, Radio silence, Communication during pump downs, lightning w/ perf guns & PPE. - RU Pure energy WLT & crane. PU CCL, 3-3' X 2 3/4" slick perf guns & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 8:20 AM w/ 2400 psi. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 150-170 fpm, 11 BPM @ 6800 psi. Pump WL down to 10,020' & stop pumping. PUH & set Halliburton 10K obsidian CFP @ 10,015'. PUH & perforate stage #4 @ 9985-88', 9935-38' & 9885-88' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 3 SPF @ 120° phasing. Total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Stage #3, Perfs @ 10174-10176¿/ 10124-10126¿/ 10074-10076¿ w/ 3 SPF 120° phase abrasive perfs. Open well, @ 0510@ 1450 psi. Broke @ 5931 psi, 4.2 BPM w/ 7.1 bbls. Stage 40 bbls 15% HCL @ 5853 psi, 10.8 BPM. Stage 100 mesh .75# @ 7588 psi, 39.7 BPM. Stage sweep @ 7291 psi, 43.8 BPM. Stage .75# 30/50 sand @ 7247 psi, 50.4 BPM. Stage 15% HCL sweep @ 7212 psi, 51.8 BPM. Stage .75# 100 mesh @ 7721 psi, 56.2 BPM. Stage sweep @ 7686 psi, 58.7 BPM. Stage 1# 30/50 sand @ 7728 psi, 60.4 BPM. Stage sweep @ 7857 psi, 61.3 BPM. Stage .75# 100 mesh @ 7529 psi, 61.5 BPM. Stage sweep @ 7563 psi, 61.5 BPM. Stage .75# 30/50 @ 7605 psi, 61.5 BPM. Stage sweep @ 7900 psi, 61.5 BPM. Stage 1# 30/50 sand @ 7594 psi, 58.6 BPM. Stage 15% HCL sweep @ 7687 psi, 57.5 BPM. Stage .75# 100 mesh @ 8378 psi, 62 BPM. Stage sweep @ 8289 psi, 61.6 BPM. Stage .75# 30/50 @ 7915 psi, 62.2 BPM, Stage sweep @ 7851 psi, 57.7 BPM, Stage 1# 30/50 sand @ 8375 psi, 57.5 BPM. Stage sweep @ 7844 psi, 57.8 BPM. Pressure was rising, stay on sweep & pressured out 223 bbls into sweep. Attempt to pump into w/o success. Surge well. Able to pump into formation. Pump 722 bbls into formation to establish injection rate of 20 BPM @ 8000 psi. 30,454#s 30/50 white sand. 5,000#s 100 mesh white sand. Treated w/ ave rate of 58.3 BPM w/ max rate of 61.6 BPM. Ave pressure of 7724 psi & Max pressure of 9696 psi. 3077 BWTR. - Stage #4, Perfs @ 9,985-88', 9,935-38' & 9,885-88 w/ 3 SPF @120° phasing. 12:00 Noon. Pressure test lines to 9900 psi. Open well, 2383 psi. Halliburton toolhand had not placed ball in wellhead. Shut in well & bleed off pressure. Place ball in top frac valve. Pressure test lines. 12:26 PM. Open well, @ 2356 psi. Broke @ 5117 psi, 4.0 BPM w/ 17 bbls. Stage 18.7 bbls 15% HCL @ 5460 psi, 18.7 BPM. Shut down, ISIP 3596 psi, 1 min SIP 3140 psi, 4 min SIP 2962 psi. Stage 100 mesh .75# @ 7670 psi, 39.6 BPM. Stage sweep @ 8030 psi, 43.4 BPM. Stage .75# 30/50 sand @ 8180 psi, 48.3 BPM. Stage 15% HCL sweep @ 8500 psi, 51.0 BPM. Stage .75# 100 mesh @ 8500 psi, 51.0 BPM. Stage sweep @ 8720 psi, 51.0 BPM. Stage .75# 30/50 sand @ 8970 psi, 51.6 BPM. Stage sweep @ 9250 psi, 50.6 BPM. Stage .75# 100 mesh @ 8870 psi, 51.3 BPM. Stage sweep @ 9140 psi, 53.7 BPM. Stage .75# 30/50 @ 9110 psi, 49.7 BPM. Stage sweep @ 9260 psi, 50.9 BPM. Stage .75# 30/50 sand @ 9180 psi, 51.6 BPM. Pressure was rising, stay on sweep & flush w/ 278 bbls (85.6 bbls overflush). 10,000#s 30/50 white sand. 2,900#s 100 mesh white sand. Treated w/ ave rate of 48.1 BPM w/ max rate of 53.7 BPM. Ave pressure of 8876 psi & Max pressure of 9658 psi. ISDP 4408 psi, 5 min SIP 3116 psi, 10 min SIP 2861 psi. FG=1.15. 1799 BWTR.

Daily Cost: \$0

Cumulative Cost: \$480,656

7/16/2012 Day: 12

Completion

Rigless on 7/16/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. Continue to perf and frac Starting on stg #7 - Stage #7 @ 9315-16.5', 9365-66.5' & 9415-16.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total

of 27 shots. Open well, @ 2424 psi. 168 bbls to land ball. Broke @ 6465 psi, 16 BPM. Shutdown ISIP 3320 psi .98 psi/ft FG. 1min 2880 psi, 4min 2780 psi. 21 perfs open. Seat ball 10 bpm 6215 psi Stage 12 bbls 15% HCL 20 bpm 5800 psi, Stage Slickwater 40 bpm 6366 psi, Stage 0.5# 100 mesh 53.2 bpm 7802 psi, Stage Slickwater 59.3 bpm7798 psi, Stage 0.5# 30/50 59.6 bpm 7700 psi, Stage Slickwater 59 bpm 7910 psi, Stage HCL 59 bpm 7900 psi, Stage Slickwater 59 bpm 7920 psi, Stage 0.75# 100 mesh 59 bpm 7907 psi, Stage Slickwater 59 bpm 7910 psi, Stage 0.75# 30/50 60 bpm 7764 psi, Stage Slickwater 59 bpm 7817 psi,Stage 0.75# 30/50 59 bpm 7693 psi,Stage Slickwater 59 bpm 8059 psi,Stage 0.75# 100 mesh 59 bpm 8210 psi, Stage Slickwater 59 bpm 8226 psi, Stage 0.75# 30/50 60 bpm 8304 psi, Stage Slickwater 59 bpm 8150 psi, Stage 0.75# 30/50 59 bpm 8473 psi, Stage Slickwater 59 bpm 8347 psi, Stage HCL 59 bpm 8347 psi, Stage Slickwater 59 bpm 8347 psi,Stage 0.75# 100 mesh 59 bpm 8470 psi,Stage Slickwater 59 bpm 8327 psi,Stage 0.75# 30/50 60 bpm 7850 psi, Stage Slickwater 60 bpm 8024 psi, Stage 0.75# 30/50 59 bpm 8377 psi,Stage Slickwater 60 bpm 8034 psi,Stage 0.75# 100 mesh 59 bpm 8609 psi,Stage Slickwater 59 bpm 8581 psi. Had to come offline briefly due to leaking hammer union on bleed off line. Stage 0.75# 30/50 59 bpm 8232 psi, Stage Slickwater 59 bpm 8450 psi, Stage 1.0# 30/50 59 bpm 8633 psi, Stage Slickwater 59 bpm 8619 psi, Stage 0.75# 100 mesh 59 bpm 8856 psi. Stage Flush 59 bpm 8844 psi. 37214#s 30/50 white sand. 7836#s 100 mesh white sand. Treated w/ ave rate of 59 BPM w/ max rate of 62 BPM. Ave pressure of 8375 psi & Max pressure of 8115 psi. 4587 BWTR. SDISIP 4520 psi 1.17 psi/ft FFG. - Stage #10 @ 8845-46.5', 8800-01.5' & 8757-58.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2415 psi. Land ball. Broke @ x psi, x BPM. Shutdown ISIP 3420 psi .91 psi/ft FG. 1min 3109 psi, 4min 2810 psi. Stage 10 bbls 15% HCL. Stage Slickwater to establish rate @ 51 BPM 6727 psi. Stage 0.5# 100 mesh 51.1 BPM @ 6710 psi. Stage Slickwater 53.4 BPM @ 6840 psi. Stage 0.5# 30/50 53.4 BPM @ 6840 psi. Stage Acid/Sweep 53.9 bpm @ 6910 psi. Stage 0.75# 100 mesh 51.8 bpm @ 8130 psi. Stage sweep 52.1 bpm @ 7730 psi. Stage 0.75# 30/50 50.6 bpm @ 8730 psi. Stage slickwater 50.5 bpm @ 8770 psi. Pressured out w/sand clearing the wellbore. Surged well 3X. Brought one pump on @ 4.5 bpm. Pumped 6 bbls acid. Pressure dropped w/acid on formation. Worked rate up to 20 bpm @ 6900 psi. Turn over to WL. 2,450#s 30/50 white sand. 3,964#s 100 mesh sand. Treated w/ ave rate of 50.3 BPM w/ max rate of 54 BPM. Ave pressure of 7906 psi & Max pressure of 9600 psi. 1992 BWTR. - PU CCL,3- 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10,000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 9.5 BPM @ 4700 psi. Pump WL down to 8905' & stop pumping. PUH & set Halliburton 10K CFP @ 8901'. PUH & perforate stage #10 @ 8845-46.5', 8800-01.5' & 8757-58.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Stage #9 @ ',9035-36.5', 8985-86.5' & 8935-36.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2230 psi. Land ball. Broke @ 4780 psi, 4.5 BPM. Shutdown ISIP 3055 psi .93 psi/ft FG. 1min 2855 psi, 4min 2662 psi. Stage 12 bbls 15% HCL. Stage Slickwater to establish rate @ 45 BPM 6226 psi. Stage 0.5# 100 mesh 45.4 BPM @ 6480 psi. Stage Slickwater 48.4 BPM @6690 psi. Stage 0.5# 30/50 55.5 BPM @ 7270 psi. Stage Acid/sweep 56.8 BPM @ 7820 psi. Stage 0.5# 100 mesh 56.7 BPM @ 8030 psi. Stage Slickwater 56.6 BPM @ 7800 psi. Stage 0.5# 30/50 56.8 BPM @ 7600 psi. Stage Slickwater 56.8 BPM @ 7710 psi. Stage 0.5# 30/50 56.5 BPM @ 7730 psi. Stage Slickwater 59.8 BPM @ 7530 psi. Stage 0.75# 100 mesh 59.9 BPM @ 7440 psi. Stage Slickwater 59.9 BPM @ 7090 psi. Stage 0.75# 30/50 61.4 BPM @ 7270 psi. Stage Slickwater 61.7 BPM @ 7080 psi. Stage 0.75# 30/50 61.4 BPM @ 7190 psi. Stage Acid/sweep 61.7 BPM @ 7070 psi. Stage 0.75# 100 mesh 61.6 BPM 7160 psi. Stage Slickwater 61.5 BPM 7050 psi. Stage 0.75# 30/50 61.6 BPM 7190 psi. Stage Slickwater 61.3 BPM 7380 psi. Stage 0.75# 30/50 61.4 BPM @ 7590 psi. Stage Slickwater 59.9 BPM @ 7400 psi. Stage 0.5# 100 mesh 61.3 BPM @ 7850 psi. Stage Flush 60.9 BPM @ 8020 psi. 23,433#s 30/50 white sand. 6500#s 100 mesh white sand. Treated w/ ave rate of 59 BPM w/ max rate of 62.2 BPM. Ave pressure of 7464 psi & Max pressure of 8414 psi. 3697 BWTR. SDISIP 3087 psi 0.93 psi/ft FFG. 5min 2710 psi, 10min 2616 psi, 15min 2570 psi. - PU CCL,3- 2 3/4" slick

perf guns loaded w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10170 psi for 5 min. Open well @ 05:15. RIH w/ WL & tie into Xover sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 10.5 BPM @ 5912 psi. Pump WL down to 9250' & stop pumping. PUH & set Halliburton 10K CFP @ 9246'. PUH & perforate stage #8 @ 9212-13.5', 9165-66.5' & 9125-26.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Seat ball .Stage 12 bbls 15% HCL .Stage Slickwater to establish rate @ 53.3 BPM 8569 psi. Stage 0.5# 100 mesh 53.3 BPM @ 8569 psi. Stage Slickwater 57.8 BPM @8368 psi. Stage 0.5# 30/50 61.0 BPM @ 8868 psi. Stage Slickwater 60.5 BPM @ 8930 psi.Stage 20 bbls 15% HCL 60.5 BPM @ 9101 psi. Stage Slickwater 59.6 BPM @ 8890 psi. Stage 0.5# 100 mesh 57.5 BPM @ 8293 psi. Stage Slickwater 61.0 bpm @ 8890 psi. Stage Slickwater 61.0 BPM @ 9088 psi. Shut down due to line leak on low pressure side of bleed off. Stage slickwater attempting to establish rate. Shut down after 588 bbls of slickwater w/ only pumping 35.0 BPM @ 9027 psi. ISDP 3434 psi, 5 min SIP 2789 psi, 10 min SIP 2659 psi, 15 min SIP 2608 psi. Propant into perfs, 2026#s of 100 mesh white sand, 3265#s of 30/50 white sand. Treated w/ ave rate of 25.9 BPM w/ max rate of 61 BPM. Ave pressure of 6035 psi & Max pressure of 9653 psi. 2276 BWTR - Pump truck had leak on transmission coolant line. RD pump & wait for replacement pump from Vernal. RU replacement pump. - Stage #8 @ 9212-13.5', 9165-66.5' & 9125-26.5 w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2475 psi. 173 bbls to land ball. Broke @ 3333 psi, 6.5 BPM. Shutdown ISIP 2868 psi .90 psi/ft FG. 1min 2790 psi, 4min 2670 psi. Seat ball 7.3 bpm 3270 psi Stage 12 bbls 15% HCL 6.5 bpm 3220 psi, Stage Slickwater 40.5 bpm 6660 psi. Pumped total of 350 bbls of fluid, shut down for step down test. - PU CCL,3- 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10,000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2.0 BPM and increase rate slowly until WL was able to maintain 200 fpm, 11 BPM @ 6060 psi. Pump WL down to 9050' & stop pumping. PUH & set Halliburton 10K CFP @ 9048'. PUH & perforate stage #9 @ 9035-36.5', 8985-86.5' & 8935-36.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL.

Daily Cost: \$0

Cumulative Cost: \$704,176

7/17/2012 Day: 13

Completion

Rigless on 7/17/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. Continue to perf and frac Starting on stg #11 - Stage #12. Perfs @ 8465-66.5', 8424-25.5' & 8365-66.6'. Pressure test lines to 9885 psi. Open well w/ 2525 psi. Stage 9 bbls 15% HCL @ 8.9 BPM. Pump ball down & seat w/ 164 bbls slick water @ 9.9 BPM. Pump 279 total bbls & do step down test. ISIP 3590 psi. FG 1.0. 1 min SIP 3222 psi, 4 min SIP 2909 psi. Pump 116 bbls slickwater to establish rate. Stage .5# 100 mesh white sand @ 6980 psi, 47.5 BPM. Stage sweep @ 6940 psi, 51.1 BPM. Stage .50# 30/50 white sand @ 7090 psi, 60.4 BPM. Stage 15% HCL sweep & slickwater @ 7420 psi, 60.1 BPM. Stage .75# 100 mesh white sand @ 7560 psi, 60.1 BPM. Stage sweep @ 7370 psi, 60.3 BPM. Stage .75# 30/50 white sand @ 6960 psi, 60.2 BPM. Stage 15% HCL acid sweep @ 9000 psi, 50.9 BPM. Stage .50# 100 mesh white sand @ 7859 psi, 47.7 BPM. Stage sweep @ 7876 psi, 56.1 BPM. Stage 15% HCL sweep @ 8892 psi, 29.4 BPM. Stage .25# 30/50 white sand @ 8204 psi, 29.5 BPM. Stage sweep @ 7317 psi, 29.5 BPM. Stage .50# 30/50 white sand @ 7708 psi, 29.5 BPM. Stage sweep @ 7967 psi, 29.5 BPM. Stage 15% HCL sweep @ 8655 psi, 29.6 BPM. Stage .50# 30/50 white sand @ 8675 psi, 29.6 BPM. Stage 17 bbls 15% HCL @ 7137 psi, 4.2 BPM. Pump 51 bbls slickwater @ 7089 psi, 4.2 BPM. Surge well. Pump 126 bbls slickwater @ 3.2 BPM w/ pressure increasing to 9278 psi. Pressure dropped to 7200 psi. Increase rate to 11 BPM, pressured out w/ 13 bbls. Pressure dropped to 4817 psi. Resume pumping. Only able to pump into well @ 3.7 BPM. Shut down and turn over to flowback. ISDP 5845 psi, 5 min SIP 2922

psi, 10 min SIP 2803 psi. Treated w/ ave rate of 27 BPM w/ max rate of 60.4 BPM. Average treating pressure 8650 psi w/ max pressure 9465 psi. Prop: 2,176#s 100 mesh white sand & 9,548#s 30/50 white sand. 3015 BWTR. - PU CCL,3- 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 10.5 BPM @ 6300 psi, Pump WL down to 8520' & stop pumping. PUH & set Halliburton 10K CFP @ 8520'. PUH & perforate stage #12 @ 8465-66.5', 8424-25.5' & 8365-66.6' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Stage #11 @8655-56.5', 8568-69.5' & 8555-56.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2415 psi. Land ball. Broke @ x psi, x BPM. Shutdown ISIP 3420 psi .91 psi/ft FG. 1min 3109 psi, 4min 2810 psi. Seat ball 9.9bpm 5540psi. Stage 11 bbls 15% HCL 25.9bpm 7000psi.Stage Slickwater 25.9bpm 7000psi.Stage 0.5# 100 mesh 46.4bpm 7060psi.Stage Slickwater 50.3bpm7270psi.Stage 0.5# 30/50 60.2bpm 7290psi.Stage Acid/sweep 60.1bpm 7520psi. Stage 0.5# 100 mesh 59.9bpm 7710psi.Stage Slickwater 60bpm 7450psi.Stage 0.5# 30/50 60.1bpm 7130psi.Stage Slickwater 60.2bpm 7340psi.Stage 0.5# 30/50 59.6bpm 7750psi.Stage Slickwater 60.2bpm 7500psi.Stage 0.75# 100 mesh 60.5bpm 8000psi.Stage Slickwater 60.3bpm 8120psi.Stage 0.75# 30/50 61.1bpm 7600psi.Stage Slickwater 59.9bpm 7820psi.Stage 0.75# 30/50 .Stage Acid/sweep 32.9bpm 8210psi. Stage 0.75# 100 mesh 49.7bpm 8610psi.Stage Slickwater .Stage 0.75# 30/50 .Stage Slickwater .Stage 0.75# 30/50 .Stage Slickwater .Stage 0.75# 100 mesh .Stage Slickwater .Stage 0.75# 30/50 .Stage Slickwater .Stage 1.0# 30/50 .Stage Slickwater .Stage 0.75# 100 mesh. Stage Flush 49.7bpm 8720psi. Surged well 3X. Brought one pump on @ 4.5 bpm. Pumped 6 bbls acid. Pressure dropped w/acid on formation. Worked rate up to 20.6 bpm @ 6900 psi. Turn over to WL. Stage #11 @8655-56.5', 8568-69.5' & 8555-56.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Open well, @ 2451 psi. Land ball. Broke @ 5998 psi, 9.9 BPM. Shutdown ISIP 3433 psi .98 psi/ft FG. 1min 2920 psi, 4min 2727 psi.12705#s 30/50 white sand. 5064#s 100 mesh white sand. Treated w/ ave rate of 50 BPM w/ max rate of 62 BPM. Ave pressure of 7882 psi & Max pressure of 9366 psi. 2881 BWTR. SDISIP 3318 psi 0.96 psi/ft FFG. 5min 2847 psi, 10min 2741 psi, 15min 2686 psi. - Started Stg #13 frac and Screened out after just 1000#s of 30/50 in the first sand stg try to surge and pump into it and counld not. Flowed the well for an hour and a half then got back into the well at 31.6bpm at 8100psi. - Baker Hughes had to RD a pump truck and move in another one and RU - PU CCL,3- 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 10.5 BPM @ 4700 psi. Pump WL down to 8318' & stop pumping. PUH & set Halliburton 10K CFP @ 8315'. PUH & perforate stage #13 @ 88226-27.5', 8220-21.5' & 8214-15.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - RD ballcatch and RU wireline to perf - Pressure test pump lines. Open well w/ 1564 psi. Walk rate up to 11 BPM & pressured out @ 71 bbls. Pumped total of 97 bbls. Open well for flowback @ 5:15 PM. Recovered 190 bbls. Start pumping @ 6:00 PM. Stage 30 bbls 15% HCL @ 243 psi, 2.5 BPM. - Open well to flowback tank attempting to retrieve ball from wellbore. Recovered 490 bbls. Pressure had dropped to 100 psi flowing pressure. Did not recover ball. Shut well in. - RU ball catcher in flowback line. Pressure test flowback equipment to 10,000 psi. - Wait for ball catcher to be delievered to location. - Open for flowback on 27/64 choke @ 7 BPM w/ 1500 psi. Recovered 440 bbls of water w/ rate flocculating between 7 BPM & 3.5 BPM w/ small show of sand in returns. Pressure had dropped to 1050 psi flowing pressure. Attempt pumping into well again. Only able to pump 33.1 bbls @ 7 BPM before pressuring out. Stim-tech report showed all fluid recovered flowing back came from previous stages. Decided to RU ball catcher on flowback iron & flow well attempting to recover ball pumped for frac plug. - PU CCL,3- 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly

until WL was able to maintain 200 fpm, 9.3 BPM @ 4850 psi. Pump WL down to 8694' & stop pumping. PUH & set Halliburton 10K CFP @ 8689'. PUH & perforate stage #11 @ 8655-56.5', 8568-69.5' & 8555-56.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL.

Daily Cost: \$0

Cumulative Cost: \$732,459

7/18/2012 Day: 14

Completion

Rigless on 7/18/2012 - Aaron Manning daytime supervisor & Don Hernandez night time supervisor. Continue to perf and frac Starting on stg #14 - PU CCL,3- 3 1/8th" ERHSC w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 8 BPM @ 3240 psi. Pump WL down to 7683' & stop pumping. PUH & set Halliburton 10K CFP @ 7683'. PUH & perforate stage #16 @ 7650-51.5', 7646-47.5' & 7642-43.5' w/ 3 1/8th" ERHSC .45 entry 22.7 grams 2.5' barrels 1.5ft of load 37.5" penetration. 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Frac Stage #15 Total sand: 5500# 100 mesh, 72.940#s 30/50 white sand. Open well @ 1:06 PM w/ 2468 psi. Broke @ 5303 psi @ 6.5 BPM, 151 bbls slickwater to seat ball. ISIP 3284 psi (FG 0.97) 1 min SIP 2974 psi, 4 min SIP 2784 psi. Stage 49 bbl 15% HCL & Slickwater to seat ball @ 13.4 BPM & 5211 psi. Stage Lightning 17 pad @ 39.5 BPM @ 5742 psi. Stage Lightning 17, .5# 30/50 white sand @ 35.3 BPM, 5782 psi. Stage Slickwater spacer @ 34.3 BPM, 5716 psi Stage Lightning 17, .5# 100 mesh @ 35.3 BPM, 5772 psi. Stage Lightning 17, 1#100 mesh @ 35.3 BPM, 5832 psi. Stage Lightning 17, .5# 30/50 white sand @ 35.3 BPM, 5962 psi. Stage Lightning 17, 1# 30/50 white sand @ 35.2PM, 5883 psi. Stage Lightning 17, 2# 30/50 white sand @ 35.9 BPM, 5159 psi. Stage Lighnting 17, 3# 30/50 white sand @ 35.9 BPM, 4839 psi. Stage Lightning 17, 3.5# 30/50 white sand @ 35.7 BPM, 4591 psi. Stage Lightning 17, 4# 30/50 white sand @ 36.7 BPM, 4526 psi. Stage Slickwater flush @ 36.1 BPM, 4523 psi. ISDP 3785 psi (FG: .96) 5 min SIP 2625 psi, 10 min SIP 2561 psi, 15 min SIP 2551 psi. Treated w/ ave pressure of 4774 psi, max pressure 6500 psi. Ave rate of 35.7 BPM & Max rate of 36.2 BPM. - PU CCL,3- 3 1/8th" ERHSC w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 10 BPM @ 6300 psi. Pump WL down to 7900' & stop pumping. PUH & set Halliburton 10K CFP @ 7895'. PUH & perforate Stage #15 @ 7860-61.5', 7856-57.5' & 7852.5-53' w/ 3 1/8th" ERHSC .45 entry 22.7 grams 2.5' barrels 1.5ft of load 37.5" penetration. 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Frac Stage #14 Open well @ 8:20 AM w/ 2343 psi. Broke @ 5317 psi @ 12.1 BPM, 161 bbls slickwater to seat ball. ISIP 3433 psi (FG 0.99) 1 min SIP 3085 psi, 4 min SIP 2917 psi. Stage 32 bbl 15% HCL & Slickwater to seat ball @ 4,210 psi. Stage Lightning 17 pad @ 40.4 BPM @ 6,110 psi. Stage Lightning 17 100 mesh .5# sand @ 40.2 BPM, 5890 psi. Stage Slickwater spacer @ 40.1 BPM, 5770 psi Stage Lightning 17, .5#100 mesh @ 40.1 BPM, 6050 psi. Stage Lightning 17, 1# 100 mesh @ 40.1 BPM, 5940 psi. Stage Lightning 17, .5# 30/50 white sand @ 39.9 BPM, 6400 psi. Stage Slickwater spacer & 10 bbls 15% HCL @ 39.8PM, 6900 psi. Stage Lightning 17, .5# 30/50 white sand @ 48.7 BPM, 6650 psi. Stage Slickwater spacer/flush @ 48.2 BPM, 7700 psi. Shut down due to rising pressure . ISDP 3575 psi (FG: 1.0) 5 min SIP 3026 psi, 10 min SIP 2889 psi, 15 min SIP 2800 psi. - PU CCL, 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 23:00. RIH w/ WL & tie into Xover sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 150-170 fpm, 8 BPM @ 2900 psi. Pump WL down to 7309' & stop pumping. PUH & set Halliburton 10K CFP @ 7307'. PUH & perforate stage #18 @ 7273-74.5', 7268-69.5' & 7262-63.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Backer

Hughes RD to get slickwater chemicals to spot in gel and gel chemicals. Plus, Pure Energy is build 3 1/8th ERHSC .45 entry 22.7 grams 2.5' barrels 1.5ft of load 37.5" penetration. Baker psi tested the frac lines after the RU. Handed the well over to Pure Energy Wireline. - Frac Stage #16 Total sand: 5428# 100 mesh, 76119#s 30/50 white sand. Open well @ 16:45 PM w/ 2260 psi. Broke @ 5577 psi @ 4.1 BPM, 158bbls slickwater to seat ball. ISIP 3392 psi (FG 0.9.98) 1 min SIP 3051 psi, 4 min SIP 2838 psi. Stage 62 bbl 15% HCL & Slickwater to seat ball @ 5 BPM & 5585 psi. Stage Lightning 17 pad @ 35.4 BPM @ 5697 psi. Stage Lightning 17, .5# 30/50 white sand @ 35.3 BPM, 5685 psi. Stage Slickwater spacer @ 35 BPM, 5530 psi Stage Lightning 17, .5# 100 mesh @ 35.4 BPM, 5638 psi. Stage Lightning 17, 1#100 mesh @ 35 BPM, 5606 psi. Stage Lightning 17, .5# 30/50 white sand @ 35 BPM, 5952 psi. Stage Lightning 17, 1# 30/50 white sand @ 35PM, 5664 psi. Stage Lightning 17, 2# 30/50 white sand @ 35.3 BPM, 5087 psi. Stage Lighnting 17, 3# 30/50 white sand @ 33.4 BPM, 4805 psi. Stage Lightning 17, 3.5# 30/50 white sand @ 35.3 BPM, 4597 psi. Stage Lightning 17, 4# 30/50 white sand @ 35.6 BPM, 4519 psi. Stage Slickwater flush @ 35.8 BPM, 4449 psi. ISDP 5311 psi (FG: .96) 5 min SIP 2752 psi, 10 min SIP 2582 psi, 15 min SIP 2513 psi. Treated w/ ave pressure of 5293 psi, max pressure 5952 psi. Ave rate of 35.1 BPM & Max rate of 35.8 BPM. - PU CCL, 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 19:00. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 150-170 fpm, 8 BPM @ 3640 psi. Pump WL down to 7505.5' & stop pumping. PUH & set Halliburton 10K CFP @ 7515'. PUH & perforate stage #17 @ 7480'-81.5', 7472.5-74' & 7466.5-68' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Frac Stage #17 Total sand: 5500# 100 mesh, 105602#s 30/50 white sand. Open well @ 22:15 PM w/ 2210 psi. Broke @ 6523 psi @ 6.3 BPM, 145bbls slickwater to seat ball. ISIP 0 psi (FG 0) 1 min SIP 0 psi, 4 min SIP 0 psi. Stage 55 bbl 15% HCL & Slickwater to seat ball @ 6.3 BPM & 6523 psi. Stage Lightning 17 pad @ 35.4 BPM @ 5412 psi. Stage Lightning 17, .5# 100 m white sand @ 35.5 BPM, 5525 psi. Stage Slickwater spacer @ 35 BPM, 5494 psi Stage Lightning 17, .5# 100 mesh @ 35.2 BPM, 5486 psi. Stage Lightning 17, 1#100 mesh @ 35.2 BPM, 5550 psi. Stage Lightning 17, .5# 30/50 white sand @ 34.2 BPM, 5643 psi. Stage Lightning 17, 1# 30/50 white sand @ 35 BPM, 5700 psi. Stage Lightning 17, 2# 30/50 white sand @ 35 BPM, 5145 psi. Stage Lighnting 17, 3# 30/50 white sand @ 35.3 BPM, 4907 psi. Stage Lightning 17, 4# 30/50 white sand @ 36.3 BPM, 4477 psi. Stage Lightning 17, 4# 30/50 white sand @ 36.3 BPM, 4477 psi. Stage Slickwater flush @ 36.5 BPM, 4454 psi. ISDP 3675 psi (FG: .97) 5 min SIP 3285 psi, 10 min SIP 2950 psi, 15 min SIP 2768 psi. Treated w/ ave pressure of 5341 psi, max pressure 6872 psi. Ave rate of 34 BPM & Max rate of 38 BPM. -PU CCL,3- 3 1/8th" ERHSC w/ 6 SPF @ 60° phasing(3-18" guns, total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 4.2 BPM and increase rate slowly until WL was able to maintain 200 fpm, 10 BPM @ 6300 psi. Pump WL down to 8143' & stop pumping. PUH & set Halliburton 10K CFP @ 8143'. PUH & perforate stage #14 @ 8090-91.5', 8032-33.5' & 7985-86.5' w/ 3 1/8th" ERHSC .45 entry 22.7 grams 2.5' barrels 1.5ft of load 37.5" penetration. 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL.

Daily Cost: \$0

Cumulative Cost: \$757,399

7/19/2012 Day: 15

Completion

Rigless on 7/19/2012 - Perf and Frac Stages 18-20 and RD perf and Frac equipment - PU CCL, 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 06:00. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 150-170 fpm, 8 BPM @ 2600 psi. Pump WL down to 6924' & stop pumping. PUH & set Halliburton 10K CFP @ 6920'. PUH & perforate stage #20 @ 6885-

86.5', 6880-6881.5' & 6874-75.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Frac Stage #18 Total sand: 5457# 100 mesh, 110231#s 30/50 white sand. Open well @ 00:40 AM w/ 2111 psi. Broke @ 6516 psi @ 25.7 BPM, 139.3bbls slickwater to seat ball. ISIP 0 psi (FG 0) 1 min SIP 0 psi, 4 min SIP 0psi. Stage 139.3 bbl 15% HCL & Slickwater to seat ball @ 5.7 BPM & 4936 psi. Stage Lightning 17 pad @ 36.4 BPM @ 5340 psi. Stage Lightning 17, .5# 100 m white sand @ 36.5 BPM, 5290 psi. Stage Slickwater spacer @ 36.3 BPM, 5240 psi Stage Lightning 17, .5# 100 mesh @ 36 BPM, 5410 psi. Stage Lightning 17, 1#100 mesh @ 36.3 BPM, 5390 psi. Stage Lightning 17, .5# 30/50 white sand @ 36.1 BPM, 5850 psi. Stage Lightning 17, 1# 30/50 white sand @ 36.1 BPM, 5700 psi. Stage Lightning 17, 2# 30/50 white sand @ 36.5 BPM, 5230 psi. Stage Lighnting 17, 3# 30/50 white sand @ 36.8 BPM, 5060 psi. Stage Lightning 17, 4# 30/50 white sand @ 37 BPM, 4850 psi. Stage Lightning 17, 5# 30/50 white sand @ 37 BPM, 4700 psi. Stage Slickwater flush @ 36.8 BPM, 4650 psi. ISDP 3308 psi (FG: .97) 5 min SIP 2791 psi, 10 min SIP 2653 psi, 15 min SIP 2604 psi. Treated w/ ave pressure of 5267 psi, max pressure 6610 psi. Ave rate of 36 BPM & Max rate of 38 BPM. - PU CCL, 2 3/4" slick perf guns loaded w/ 6 SPF @ 60° phasing(18" total of 27 shots) & Halliburton CFP. Pressure test lubricator to 10000 psi for 5 min. Open well @ 02:30. RIH w/ WL & tie into X-over sub, correlate to CBL. Begin pumping w/ Baker Hughes @ 2 BPM and increase rate slowly until WL was able to maintain 150-170 fpm, 8 BPM @ 3100 psi. Pump WL down to 7144' & stop pumping. PUH & set Halliburton 10K CFP @ 7138'. PUH & perforate stage #19 @ 7085-86.5', 7080-81.5' & 7074-75.5' w/ 2 3/4" slick guns 16 gram 0.38 EH 35" penetration 6 SPF 60° phasing, total of 27 shots. Pumping 2 BPM during perforating. POOH w/ WL. - Frac Stage #19 Total sand: 5473# 100 mesh, 111178#s 30/50 white sand. Open well @ 04:00 AM w/ 2406 psi. Broke @ 7477 psi @ 29.8 BPM, 28.4 bbls slickwater to seat ball. ISIP 0 psi (FG 0) 1 min SIP 0 psi, 4 min SIP 0psi. Stage 60 bbl 15% HCL & Slickwater to seat ball @ 6.4 BPM & 6550 psi. Stage Lightning 17 pad @ 35.6 BPM @ 5370 psi. Stage Lightning 17, .5# 100 m white sand @ 37.6 BPM, 5540 psi. Stage Slickwater spacer @ 37.3 BPM, 5620 psi Stage Lightning 17, .5# 100 mesh @ 37.2 BPM, 5876 psi. Stage Lightning 17, 1#100 mesh @ 37.2 BPM, 5930 psi. Stage Lightning 17, .5# 30/50 white sand @ 37.1 BPM, 6250 psi. Stage Lightning 17, 1# 30/50 white sand @ 37.2 BPM, 5650 psi. Stage Lightning 17, 2# 30/50 white sand @ 37.5 BPM, 5090 psi. Stage Lighnting 17, 3# 30/50 white sand @ 37.7 BPM, 4860 psi. Stage Lightning 17, 4# 30/50 white sand @ 37.6 BPM, 4370 psi. Stage Lightning 17, 5# 30/50 white sand @ 37 BPM, 4700 psi. Stage Slickwater flush @ 37.6 BPM, 4286 psi. ISDP 3090 psi (FG: .93) 5 min SIP 2503 psi, 10 min SIP 2353 psi, 15 min SIP 2283 psi. Treated w/ ave pressure of 5482 psi, max pressure 7477 psi. Ave rate of 35 BPM & Max rate of 38 BPM. - Frac Stage #20 Total sand: 5473# 100 mesh, 111178#s 30/50 white sand. Open well @ 07:15 AM w/ 2121 psi. Broke @ 6179 psi @ 6.2 BPM, 131.6 bbls slickwater to seat ball. ISIP 3295 psi (FG.97) 1 min SIP 2989 psi, 4 min SIP 2577 psi. Stage 45.5 bbl 15% HCL & Slickwater to seat ball @ 12.8 BPM & 4300 psi. Stage Lightning 17 pad @ 36.2 BPM @ 5450 psi. Stage Lightning 17, .5# 30/50 white sand @ 36.0 BPM, 5470 psi. Stage Slickwater spacer @ 35.8 BPM, 5440 psi Stage Lightning 17, .5# 100 mesh @ 35.7 BPM, 5590 psi. Stage Lightning 17, 1#100 mesh @ 35.8 BPM, 5870 psi. Stage Lightning 17, .5# 30/50 white sand @ 35.7 BPM, 5700 psi. Stage Lightning 17, 1# 30/50 white sand @ 35.9 BPM, 5240 psi. Stage Lightning 17, 2# 30/50 white sand @ 36.1 BPM, 4750 psi. Stage Lighnting 17, 3# 30/50 white sand @ 36.4 BPM, 4570 psi. Stage Lightning 17, 4# 30/50 white sand @ 36.6 BPM, 4370 psi. Stage Lightning 17, 5# 30/50 white sand @ 35.6 BPM, 4280 psi. Stage Slickwater flush @ 35.7 BPM, 4240 psi. ISDP 3190 psi (FG: .95) 5 min SIP 2694 psi, 10 min SIP 2593 psi, 15 min SIP 2546 psi. Treated w/ ave pressure of 5287 psi, max pressure 7499 psi. Ave rate of 35.9 BPM & Max rate of 36.6 BPM. - RD Baker Hughes frac equipment & Pure energy WLT and move off location. - Check pressure on well, 2200 psi. Open well through flowback equipment on a 12/64 choke. Flowing @ approx 2.5 to 3 BPM. Continue to flow well.

Daily Cost: \$0

Cumulative Cost: \$1,362,227

Completion

WWS #5 on 7/23/2012 - Aaron Manning day time supervisor, Mike Snow night time supervisor. RU NU TEST rih 2 3/8 tbg - Continue to flowback well on 12/64 choke. Shut well in @ 7:15 AM. Pressure had dropped to 450 psi flowing pressure. Recovered total of 5387 bbls water. Waiting on transfer to get total oil recovery numbers. - Pressure test bottom set of pipe rams w/ low test of 250 psi for 5 min & high test of 5000 psi for 10 min. Pressure test flowback equipment w/ low test of 250-300 psi for 5 min & high test of 5000 psi for 10 min. -MIRU WWS #7. ND Weatherford 10K manual frac valve, flow cross & HCR valve. NU Weatherford 5K-10K X-over, 5K double pipe rams & flow cross. MIRU Perforators WLT. - Wait for Halliburton completion tools to deliver setting sleeve for WL solid composite plug. Plug was left after frac but no setting tool. - MU setting tool & solid composite plug. PU CCL, weight bar, & CBP w/ setting tool. Pressure test WL lubricator and 5K well control stack to 5000 psi for 5 min. Equalize well pressure/lubricator, 850 psi. RIH w/ CBP & set @ 6279'. Open well through flowback equipment while POOH w/ WL. Leave well open through flowback when out of hole to let well finish bleeding off. RD WLT. - MU test sub in hanger w/ TIW valve in top. Set hanger in wellhead. Pressure test each set of pipe rams & TIW valve w/ low of 250 psi-300 psi for 5 min & high test of 5000 psi for 10 min. Bottom set of pipe rams passed low test but not high test. - RU rig floor & tbg equipment. Talley & MU BHA as follows: 3.795" four blade TTS mill, TTS duel back pressure valve, TTS dart valve, XO 2 3/8 PAC by 2 3/8 PH-6, 1 Joint 2 3/8 5.95 # p 110 Tbg ,R profile nipple,Rih 28 joints 2 3/8 5.95 # p 110 tbg ,tongs broke 1.5 hrs down time replace tongs Rih 71 joints 2 3/8 5.95# p 110 tbg Crew Change - Change out 2 3/8" ram blocks on bottom set of pipe rams.

Daily Cost: \$0

Cumulative Cost: \$1,566,813

7/24/2012 Day: 17

Completion

WWS #5 on 7/24/2012 - Aaron Manning day time supervisor, Mike Snow night time supervisor. Continue drill out plugs. - Ru PS ,establish circulation 3 bpm drill plug 6279,7 min ,pump sweep 30 bbls,Rih tag 6905 swivel up was down drill plug 6920, 21 min,pump 10 bbl poly sweep, talley next row. PU tbg & swivel down to plug #2 @ 7138' (7:33 AM) (231its). Drill out plug in 20 min. Pump 10 bbl polymer sweep. Started to see medium sand in returns. Continue PU tbg & swivel down to plug #3 @ 7307' (8:38 AM) (236- jts). Drill out plug in 26 min. Pump 10 bbl polymer sweep. Continue PU tbg & swivel down, tag 30' of fill on top of plug (7485'). Swivel down to plug #4 @ 7515' (9:52 AM) (243- jts). Drill out plug in 29 min. Pump 10 bbl polymer sweep. Shut down power swivel to check fluids. Continue PU tbg & swivel down to plug # 5 7683' (11:45)(248- its). Clean out sand all the way down. - Oil at surface ru pump and lines circ well 3 bpm 20 min 10 bbl oil recovered to tanks ,RIH 2 3/8 5.95 p 110 tbg install second r nipple top of joint 194 tag kill plug 6279' joint 203 , - Change tower crew on rig. Drill out plug in 34 min. Pump 10 bbl polymer sweep. Batch water tanks w/ clay treat @ 1 gpt & pipe-on-pipe FR @ .25 gpt. Continue PU tbg & swivel down to plug #6 @ 7895' (1:05 PM) (255- jts). Pump 10 bbl polymer sweep. Continue PU tbg & swivel down to plug #7 @ 8144' (2:50 PM) (263- jts). Drill out plug in 28 min. Pump 10 bbl polymer sweep. Continue PU tbg & swivel down to plug #8 @ 8325' (4:16 PM) (269- jts). Drill out plug in 23 min. Pump 10 bbl polymer sweep. Continue PU tbg & swivel down to plug #9 @ 8520' (5:20 pm) (275- jts). Drill out plug in 38 min. Pump 10 bbl polymer sweep. Continue PU tbg & swivel down to plug #10 @ 8689' (6:25 PM) (281- jts). Drill out plug in 28 min. Pump 10 bbl polymer sweep. Continue PU tbg & swivel down to plug #11 @ 8901' (7:44)(287-jts) Drill out plug in 29 min, Pump 10 bbl polymer sweep. Check fluids in power swivel, Continue PU tbg A swivel down to plug # 12 @ 9072' (8:52)(293-jst) Drill out plug 21 min ,Pump 10 bbl polymer sweep. Continue PU tbg & swivel down to plug # 13 @ 9265'(10:01)(299-jst) Drill out plug 33 min .Pump 10 bbl polymer sweep ,continue PU tbg & swivel down to plug 14, 9457, (11:22) (306jts)drill plug 33 min pump 10 polymer sweep,

Daily Cost: \$0

Cumulative Cost: \$1,618,788

7/25/2012 Day: 18

Completion

WWS #5 on 7/25/2012 - Continue Drill plugs, LD 2 3/8 work string - Install Final BHA 2 7/8 wireline re entry collar 6' 2 7/8 n-80 pup 2 2/8 by 2 3/8 xo 2 3/8 xn nipple 8' 2 3/8 n-80 pup with pressure bombs inside 2 3/8 by 2 7/8 xo 6' 2 7/8 n-80 pup AS1 packer on off tool 4' 2 7/8 tbg pup jet pump 2 7/8 6' n-80 pup pump 40 bbl top kill rih 16 joints well flowing install washington head rubber crew change - Pump 20 bbl polymer sweep and circulate bottoms up while rotating and working tbg. Change out Washington head rubber. Pump additional 15 bbl polymer sweep and circulate well clean w/ 200 BW while rotating and working tbg. - Hang swivel back in derrick. Tie rig back double line. LD 114- jts tbg on pipe racks (225- jts in hole, EOT @ 6976'). RU power swivel. - Batch & pump 20 bbl polymer sweep. Circulate well clean w/ 150 BW while rotating and working tbg. - Crew Change , Continue PU tbg & Swivel to plug # 15, 9662 (12:47) (313 jts)6' sand on plug Drill out plug 43 min pump 10 bbl polymer sweep, Continue PU tbg and swivel to plug # 16, 9835' (2:20)(318-jts) drill out plug 16 min ,Continue PU tbg & swivel to plug # 17 Last one 10015',(3:13am)(324-jts) drill on plug 13 minutes take kick stuck pipe pump 100 bbl clear 4.5 casing swivel down, single line rig swivel up work pipe and circulate well pipe free pulled 90k continue drill plug 10015 (4:40am) 57 min drill time on last plug, continue clean out to 10475 PBTD. - RD power swivel and rack out. Continue LD workstring (total of 353- total jts on pipe rack) break apart & LD BHA. -Make up Bha Wait on pressure bombs to arive loc - Unload 2 7/8" J-55 6.5# 8rd EUE tbg onto pipe racks. X-over tbg equipment from 2 3/8" to 2 7/8". Change out pipe rams to 2 7/8" ram blocks (2 sets). Pressure test each set of pipe rams w/ low test of 250-300 psi for 5 min & high test of 5,000 psi for 10 min. Load 2 3/8" PH-6 (Weatherford work string) onto trailers and return to Runners yard.

Daily Cost: \$0

Cumulative Cost: \$2,048,128

7/26/2012 Day: 19

Completion

WWS #5 on 7/26/2012 - RIH w/ production tbg. Set AS1-X packer w/ CE @ 6004' w/ 13,000#s compression. ND BOP stack. NU wellhead & pressure test to 5000 psi. RDMOSU. RD flowback iron. - flow well to tanks unload oil and gas 1.5 hrs, Pump 140 bbl kill water injection rt 3 bpm 700 psi isip 700 psi 15 min , order 10# brine water, flow back well dead PU tbg (95-jts 2 7/8 6.5# J-55 tbg circulate hole Talley pipe ,continue PU tbg 190-jts circulate bottoms up. - RU sandline. RIH w/ tbg drift on sandline to packer. POOH w/ sandline. LD tbg drift and RD sandline. - PU wellhead hanger w/ two-way check valve on a jt of tbg. Set Weatherford Arrowset 1-X packer w/ CE @ 6004.65' w/ 13,000#s compression, EOT @ 6030.58'. Land hanger in tbg head. LD jt of tbg. RD rig floor. ND Washington head, 5K flow cross, 5K double pipe rams & 10K manual frac valve. NU B1 adapter w/ 2 -9/16" gate valve on tbg head. Pressure test wellhead flange, hanger & gate valve to 5,000 psi for 10 min. - Rack out pump lines & pump. Clean up location. RDSU. Steam off equipment, tools & rig. - pump 40 bbl kill continue in hole pick up 8 joints 2 7/8 6.5 J-55 tbg well flowing up tbg stab tiw valve SI tbg

Daily Cost: \$0

Cumulative Cost: \$3,129,032

ertinent Files: Go to File ist

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

												_		ML-2	2183	55		
la. Type of b. Type of	Well Completion	V O	il Well ew Well		as Well Jork Over	Dry Deepen] O		☐ Diff	Resvr.	,			NA		an, Allotte		
J. 13pc 01			her:								-	_		GME	3U (GRRV)		lame and No.
2. Name of NEWFIELI	Operator D EXPLOR	RATION	N COM	PANY												Name and 2-36-8-15		o.
3. Address	1401 17TH S	ST. SUITE	1000 DE	NVER, C				(4	35) 646		ude c	rea code,)	43-0	13-5	ell No. 51065		
4. Location	of Well (Re	eport loc	ation cl	early and	in accord	lance with Feder	al r	equiremen	ts)*			_				and Pool		oratory
At surfac	e 934' FN	L & 206	31' FEL	(NW/N	E) SEC.	36, T8S, R15	E (N	/IL-21835	5)							T., R., M., y or Area		ck and , T8S, R15E
	215	reported	below 1	1778' F	VL & 250) VSW) SE	3' FEL (SW/N C. 36, T&S, R	15F	SEC. 36, = (ML-218	T8S, R 335) 🕏	15E (M iH. V	IL-21 ว ง	1835) HSNN				ty or Paris	sh	13. State
At total de 14. Date Sp	pui				D. Reache			16. D	ate Comp	oleted ()	7/29	9/2012	<u> </u>			tions (DF		RT, GL)*
05/23/201 18. Total De	2	1058		07/02/2012 □ D & A														
	TVI	D 612	:2		TVD (a) 25									Yes (S	lubmit ar	nalvsis)		
DUAL INC	GRD, SP	, COM	P. DEN	ISITY,C	OMP. N	EUTRON,GR,	CA	LIPER, C	MT BO	ND		Was DS7		✓ N	۰ <u>آ</u>	Yes (S	Submit re	port)
23. Casing	and Liner R				s set in wei			Stage Ce	menter	No	of S	ks. &	Slurry	Vol.			. T	
Hole Size	Size/Gra		Wt. (#/ft.	-	op (MD)	Bottom (MI))	Dep		Туре	of C	Cement	(BB		C	ement Top	*	Amount Pulled
12-1/4"	8-5/8" J-		2.5#	0	_	516' 10542'	_			235 C 400 E				+	180		+	
6-1/4"	4-1/2" P	-110 1	3.5#	- -		10042	\dashv	_		505 E				+	100		\dashv	
	1	_				 				50 EL				1				
_																		
										<u> </u>								
24. Tubing		Set (MD) Pac	ker Dept	h (MD)	Size		Depth Set	(MD)	Packer	Dept	h (MD)	Siz	e	D	epth Set (MD)	Packer Depth (MD)
2-7/8"		© 6031		vset @														
25. Produci						D-#	_		foration l			_ 	Size	No. F	Inles		1	Perf. Status
A) Green	Formation River	n	1	6874'	op	Bottom 10466'	\dashv	10174-10		iei vai		.125"		36	10103			CII. Diatus
B)	14.701		t				\dashv	6874-74		14-998	38'	.38"		378				
<u>C)</u>		_						7642-80				.45"		81				
D)														_				
27. Acid, F			Cement :	Squeeze,	etc.		_	_		Amount	and '	Type of M	faterial					
8935-1046	Depth Inter	vai		Frac w/	227386#	30/50 white	san	d & 5881						er fluid;	14 s	stages.		
6874-7862						30/50 white											stage	S.
												_						
28. Product Date First		al A Hours	Test		Oil	Gas	Wa	ter	Oil Gra	vitv	k	Gas	Prod	luction M	etho	d	-	
Produced	1 Cot Date	Tested			BBL	MCF	ВВ		Corr. A			Gravity	1					
7/30/12	8/9/12	24		→	168	0	98							Γ PUMP ———–	,			
Choke	Tbg. Press.		24 F Rate		Oil BBL	Gas MCF	Wa BB		Gas/Oil Ratio			Well Statu PRODU						
Size	Flwg. SI	Press.	Kau	-	DDL	Wicr	סט	L	Racio			FRODU	CING					
28a. Produc	tion - Interv	ral B			L		<u> </u>				1							
Date First Produced		Hours Tested	Test Proc		Oil BBL	Gas MCF	Wa BB		Oil Grav Corr. A			Gas Gravity	Prod	luction M	letho	d		
Choke	Tbg. Press.	Csg.	24 I	Ir.	Oil	Gas	Wa	ter	Gas/Oil			Well Statu	ıs				DE	ENCO
Size	Flwg. SI	Press.	Rate	:	BBL	MCF	BB	L	Ratio								INEL	EIVED
_),			-	<u></u>				<u></u>								pot.	3 0 2012

		_								
28b. Prod	uction - Inte			1			lou o	- h	Durdentin Med ed	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
	uction - Inte	rval D Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced	Test Date	Tested	Production		MCF	BBL	Corr. API	Gravity	I rougelon victarea	
Choke Size	Tbg. Press. Flwg. SI	. Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
29. Dispo	sition of Ga	s (Solid, u	sed for fuel, ve	ented, etc.,)			\		
SOLD AND	USED FOR I	FUEL								
30. Sumr	nary of Porc	ous Zones	(Include Aqu	ifers):				31. Formati	on (Log) Markers	
Show include recover	ing depth in	t zones of terval teste	porosity and c ed, cushion us	contents the	ereof: Cored ool open, flow	intervals and aling and shut-in	ll drill-stem tests, pressures and	GEOLOG	ICAL MARKERS	
			D.#****		Dag	criptions, Cont	anta ata		Name	Тор
For	mation	Top	Bottom		Des	criptions, Com	ents, etc.			Meas. Depth
GREEN RI	VER	6874'	10466'					GARDEN GU GARDEN GU	JLCH MARKER JLCH 1	3852' 4081'
								GARDEN GU DOUGLAS C		4198' 4892'
								B-LIMESTON CASTLE PE		5268' 5789'
								BASAL CARI	BONATE	6279'
32. Addi	tional remar	ks (include	e plugging pro	ocedure):				•		
			,							
33. Indic	ate which its	ems have b	peen attached	by placing	a check in the	e appropriate be	oxes:			
						Geologic Repo		Report	☑ Directional Survey	
Sur	ndry Notice f	or pluggin	s (1 full set req	erification		Core Analysis	Other	:		nc-=u
					ormation is co	mplete and corr			ecords (see attached instructions	s)*
Ŋ	Name <i>(plea</i> s	e print Je	ennifer Peat	ross			Title Product	ion Technician		
s	Signature /	YL	KTVO	לל			Date 10/22/20	112		
Title 18 U	J.S.C. Section	n 1001 an	d Title 43 U.S	S.C. Section	on 1212, make	it a crime for a	any person knowing	ly and willfully to	make to any department or age	ncy of the United States any

(Continued on page 3) (Form 3160-4, page 2)



NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT GMBU 2-36-8-15H GMBU 2-36-8-15H

GMBU 2-36-8-15H

Survey: Survey #1

Standard Survey Report

19 June, 2012





Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site:

GMBU 2-36-8-15H

Well: Wellbore: GMBU 2-36-8-15H

GMBU 2-36-8-15H

GMBU 2-36-8-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well GMBU 2-36-8-15H

KB @ 5791,50ft (CAPSTAR 328)

KB @ 5791.50ft (CAPSTAR 328)

True

Minimum Curvature

EDM 5000.1 Single User Db

Design: Project

DUCHESNE COUNTY, UT

Map System:

US State Plane 1983

Geo Datum:

North American Datum 1983

Map Zone:

Utah Central Zone

System Datum:

Mean Sea Level

Site

Well

GMBU 2-36-8-15H

Site Position:

From:

Well Position

Lat/Long

Northing: Easting: Slot Radius: 7,200,287.41 usft

Latitude:

Longitude: **Grid Convergence:** 40° 4' 44,950 N

110° 10' 42.220 W

0.85 °

Position Uncertainty:

GMBU 2-36-8-15H

+E/-W

+N/-S

0.00 ft

0.00 ft

Northing: Easting:

7,200,287.41 usft

2.010.206.26 usft

13-3/16"

2,010,206.26 usft

Latitude: Longitude: 40° 4' 44.950 N

Position Uncertainty

0.00 ft 0.00 ft

Wellhead Elevation:

fţ

11.28

Ground Level:

110° 10' 42.220 W

52,120

5,773.50 ft

Wellbore

GMBU 2-36-8-15H

GMBU 2-36-8-15H

Magnetics

Model Name

BGGM2011

Sample Date

5/24/2012

Declination (°)

Dip Angle (°)

Field Strength

(nT)

Audit Notes:

Version:

Design

1.0

Phase:

ACTUAL

Tie On Depth:

0.00

65.76

Vertical Section:

Depth From (TVD) (ft) 0.00

+N/-S (ft)

0.00

+E/-W (ft) 0.00

Direction (°) 201.30

Survey Program

Date 6/19/2012

From (ft)

To

(ft)

Survey (Wellbore)

Tool Name

Description

553.00

10,580.00 Survey #1 (GMBU 2-36-8-15H)

MWD

MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GMB 2-36-8-	15								
3,21	0,01	44.78	3.21	0.00	0.00	0.00	0.22	0.22	0.00
553.00	1.22	44.78	552.96	4.18	4.15	-5.40	0.22	0.22	0.00
643.00	1.25	42.28	642.94	5.59	5.48	-7.20	0.07	0.03	-2.78
734.00	1.19	33.16	733.92	7.11	6.67	-9.05	0.22	-0.07	-10.02
824.00	1,19	41,41	823,90	8,59	7.80	-10.84	0.19	0.00	9.17
945.00	1,44	29.16	944.87	10.86	9.37	-13.52	0.31	0.21	-10.12
990.00	0.88	29,41	989.86	11.66	9,81	-14.43	1.24	-1.24	0.56
1,081,00	0.25	317.78	1,080,85	12.41	10.02	-15.21	0.92	-0.69	-78.71
1,172.00	0.19	261.90	1,171.85	12.54	9.74	-15,22	0.23	-0.07	-61.41
1,262,00	0.38	276.90	1,261.85	12.56	9.30	-15.07	0.23	0.21	16.67
1.353.00	0.19	260.53	1,352.85	12.57	8.85	-14.92	0.23	-0.21	-17.99



Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site: Well: GMBU 2-36-8-15H GMBU 2-36-8-15H

Wellbore: Design:

GMBU 2-36-8-15H GMBU 2-36-8-15H

GMBU 2-36-8-15H GMBU 2-36-8-15H Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well GMBU 2-36-8-15H

KB @ 5791.50ft (CAPSTAR 328)

KB @ 5791.50ft (CAPSTAR 328) True

Minimum Curvature

EDM 5000.1 Single User Db

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
			4 440 05			4470	0.08	0.00	-25.00
1,444.00	0.19	237.78	1,443.85	12.46	8.57	-14.72	0.08 0.16	0.00	-25.00 39.86
1,534.00	0.25	273,65	1,533.85	12.39	8.25	-14.54			
1,625.00	0.31	246.28	1,624.85	12.31	7.83	-14.31	0.16	0.07	-30.08
1,716.00	0.69	230.28	1,715.84	11.86	7.18	-13.66	0.44	0.42	-17.58
1,806.00	0.88	216.91	1,805.84	10.96	6.35	-12,52	0.29	0.21	-14.86
1,897.00	1.06	223.28	1,896.82		5.35	-11.06	0.23	0.20	7.00
1,987.00	1.31	213.91	1,986.80	8.33	4.21	-9.29	0.35	0.28	-10.41
2,078.00	1.38	219.78	2,077.78	6.62	2.92	-7.23	0.17	0.08	6.45
2,169.00	0.50	226.91	2,168.76	5.51	1.93	-5.84	0.97	-0.97	7.84
2,259.00	0.69	178.16	2,258.76	4.70	1.66	-4.98	0.58	0.21	-54.17
2,350.00	1.00	178.16	2,349.75	3.36	1.71	-3.75	0.34	0.34	0.00
2,439.00	1.25	172.41	2,438.73	1.62	1.86	-2.18	0.31	0.28	-6.46
2,531.00	1.50	179.28	2,530.71	-0.58	2,01	-0.19	0.33	0.27	7.47
2,622.00	0.63	196.66	2,621.69	-2.25	1.88	1.41	1.01	-0.96	19.10
2,712.00	1.00	176.53	2,711.68	-3.51	1.78	2.62	0.51	0.41	-22.37
2,803.00	1.31	176. 41	2,802.66	-5.34	1.90	4.28	0.34	0.34	-0.13
2,893.00	1.56	181.28	2,892.63	- 7.59	1,93	6.37	0.31	0.28	5.41
2,983.00	0.81	190.03	2,982.61	-9.44	1.80	8.14	0.85	-0.83	9.72
3,073.00	0.56	297.90	3,072.61	-9.86	1.30	8.72	1.24	-0.28	119.86
3,164.00	0.44	265.40	3,163.61	-9.68	0.56	8.82	0.33	-0.13	-35,71
3,255.00	1.00	246.66	3,254.60	-10.02	-0.52	9.53	0.66	0.62	-20.59
3,391.00	0.81	240.66	3,390.58	-10.97	-2.45	11.11	0.16	-0.14	-4.4 1
3,436.00	1.00	226.66	3,435.58	-11.39	-3.01	11.71	0.64	0.42	-31.11
3,527.00	1.27	224.28	3,526.56	-12.66	-4.29	13.35	0.30	0.30	-2.62
3,617.00	0.50	241.03	3,616.55	-13.56	-5.33	14.57	0.89	-0.86	18.61
3,707.00	0.75	217.03	3,706.54	-14.22	-6.03	15.44	0.40	0.28	- 26.67
3,798.00	1.13	220.53	3,797.53	-15.38	-6.97	16.86	0.42	0.42	3.85
3,888.00	1.38	216.03	3,887.51	-16.93	-8.19	18.75	0.30	0.28	-5.00
3,979.00	0.56	239.16	3,978.50	-18.04	-9,21	20.16	0.98	-0.90	25.42
4,070.00	1.06	226.41	4,069.49	-18.85	-10.21	21.27	0.58	0.55	<i>-</i> 14.01
4,160.00	1.50	225.78	4,159.46	-20.25	-11.65	23.10	0.49	0.49	-0.70
4,251.00	0.81	214.66	4,250.44	-21.61	-12.87	24.81	0.79	-0.76	-12.22
4,341.00	1.00	190.03	4,340.43	-22.90	-13.37	26.20	0.48	0.21	-27.37
4,432.00	1.38	176.53	4,431.41	-24.78	-13,44	27.97	0.52	0.42	-14,84
4,523.00	0.94	177.03	4,522.39	-26.62	-13.34	29.65	0.48	-0.48	0.55
4,613.00	1.06	179.03	4,612.38	-28,19	-13,29	31.09	0.14	0.13	2.22
4,704.00	1.56	187.78	4,703.36	-30.26	-13.44	33.07	0.59	0.55	9.62
4,795.00	1.38	167.78	4,794.33	-32.56	-13.37	35.19	0.59	-0.20	-21.98
4,885.00	1.00	188.53	4,884.31	-34,39	-13.26	36.86	0.63	-0,42	23.06
5,021.00	2.13	210.28	5,020.26	-37.75	-14.71	40.51	0.92	0.83	15.99
5,112.00	1.56	240.53	5,111.21	-39.82	-16.64	43.14	1.22	-0.63	33.24
5,202.00	2.00	243.53	5,201,17	-41.12	-19.12	45.26	0.50	0.49	3.33
5,293.00	1.19	258.53	5,292.13	-42.02	-21.46	46.94	0.99	-0.89	16.48
	1.25	314.40	5,383.11	-41.51	-23.10	47.07	1.26	0.07	61.40
5,384.00 5,474.00	1.25 1.25	314.40	5,383.11	-40.33	-23.10 -24.65	46.52	0.34	0.00	-15.56
		291.77	5, 4 73.09 5,561.07	-40.33 -39.42	-24.65 -26.54	46.32 46.36	0.34	0.27	-9.81
5,562.00 5,611.00	1.49	281.77	5,610.04	-39.42 -38.97	-28.12	46.53	1.94	1.82	-20.39
5,656.00	2.38 4.89	249,27	5,654.95	-39.46	-30.83	47.97	7.01	5.58	-72.24
5,701.00	7.54	227.79	5,699.69	-42.12	-34.82	51.89 59.71	7.74	5.89 7.52	-47.73 -13.61
5,747.00	11.00	221.53	5,745.08	-47.44	-39.96	58.71	7.82	7.52 9.31	-13.61
5,792.00	15.19	217.53	5,788.90	-55.33 66.41	-46.40 54.16	68.41	9,52	9.31 10.27	-8,89 -10.00
5,837.00	19.81	213.03	5,831.81	-66. 4 1	-54.16	81.54	10.69	10.27	-10.00 -2.72
5,883.00	24.69	211.78	5,874,37	-81.12	-63.47	98.63	10.66	10,01	-2.12



Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project: DUCHESNE COUNTY, UT

Site: Well: GMBU 2-36-8-15H GMBU 2-36-8-15H

Wellbore: Design: GMBU 2-36-8-15H GMBU 2-36-8-15H Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

Well GMBU 2-36-8-15H

KB @ 5791.50ft (CAPSTAR 328) KB @ 5791.50ft (CAPSTAR 328)

True

Minimum Curvature

EDM 5000.1 Single User Db

y										
	Measured			Vertical			Vertical	Dogleg	Build	Turn
	Depth	11141	A minus sale	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	(ft)	Inclination (°)	Azimuth (°)	(ft)	+N/-S (ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)
					1.5.		45.		40.97	-7.40
	5,973.00	33.43	205.95	5,953.06	-119.19	-84.46 -95.75	141.73 168.80	10.95 12.29	10.27 11.85	-7. 4 0 -5.52
	6,019.00	38.88	203.41	5,990.19	-143.85					
	6,062.00	43.88	204.53	6,022.45	-169.81	-107.31	197.19	11.75	11.63	2.60
	6,108.00	45.94	206.16	6,055.03	-199.15	-121.22	229.58	5.13	4.48	3.54
	6,153.00	47.13	206.66	6,085.98	-228,40	-135.74	262.11	2.76	2.64	1.11
	6,198.00	51,69	207.78	6,115.25	-258.78	-151.38	296.09	10.31	10.13	2.49
	6,244.00	57.75	208.16	6,141.81	-291.93	-168.99	333.37	13.19	13.17	0.83
	6,289.00	59.41	207.50	6,165.27	-325,88	-186.91	371.52	3.90	3.69	-1.47
	6,334.00	65.41	207.28	6,186.10	-361.28	-205.25	411.16	13.34	13.33	-0.49
	6,380.00	71.31	207.28	6,203.06	-399.27	-224.84	453.66	12.83	12.83	0.00
	6,425.00	74.06	207.16	6,216.45	-437.47	-244.49	496,39	6.12	6.11	-0.27
	6,470.00	78.94	206.53	6,226.95	-476.50	-264.24	539.93	10.93	10.84	-1.40
	•	82.63	206.28	6,234.15	-516.27	-283.99	584.16	8.22	8.20	-0.56
	6,515.00				-516.27 -557.23	-304.07	629.62	0.73	-0.15	-0.72
	6,561.00	82.56	205.95	6,240.08						
	6,606.00	86.88	205.91	6,244.22	-597.52	-323.66	674.27	9.60	9.60	-0.09
	6,640.00	91.26	206.87	6,244.77	-627.97	-338.76	708.12	13.19	12.88	2.82
	6,670.00	90.05	206.65	6,244.43	-654.75	-352.27	737.99	4.10	-4.03	-0.73
	6,700.00	84.69	205.78	6,245.81	-681.63	-365.50	767.83	18.10	-17.87	-2.90
	6,730.00	85.19	205.66	6,248.45	-708.55	-378.47	797.63	1.71	1.67	-0.40
	6.760.00	88.25	204.91	6,250.17	-735.63	-391.26	827.50	10.50	10.20	-2.50
	6,790.00	89.94	204.53	6,250.64	-762.87	-403.81	857.44	5.77	5.63	-1.27
	6,820.00	90.19	205.16	6,250.61	-790.10	-416.41	887,38	2.26	0.83	2.10
	6,850.00	92,44	205.41	6,249.92	-817.22	-429.22	917.30	7.55	7.50	0.83
	6,880.00	92.19	204.78	6,248.71		> -44 1.93	947.21	2,26	-0.83	-2.10
	6,912.00	91,63	205.16	6,247.64	-873,35	-455.43	979.13	2,11	-1.75	1.19
	6,957.00	91.19	204.53	6,246.54	-914.18	-474.34	1,024.03	1.71	-0.98	-1.40
	7,003.00	90.13	204.41	6,246.01	-956.04	-493.39	1,069.95	2.32	-2.30	-0.26
	7,048.00	90,31	204.16	6,245.83	-997.06	-511. 9 0	1,114.89	0.68	0.40	-0.56
	7,093.00	91.75	204.78	6,245.02	-1,038.01	-530.53	1,159.81	3.48	3.20	1.38
	7,139.00	93.19	205.78	6,243.04	-1,079.56	-550.16	1,205.66	3.81	3.13	2.17
	7,184.00	93.94	206.78	6,240.24	-1,119.83	-570.04	1,250.40	2.77	1.67	2.22
	7,104.00	92.81	206.41	6,237.59	-1,160.00	-590.15	1,295.13	2,64	-2.51	-0.82
	7,229.00	92.75	205.78	6,235.41	-1,200.37	-609.92	1,339.92	1.40	-0.13	-1.40
	7,320.00	93.25	205.53	6,233.00	-1,241.77	-629.81	1,385.72	1.21	1.09	-0.54
	7,365.00	94.00	205.41	6,230.16	-1,282.32	-649.12	1,430.51	1.69	1.67	-0.27
	7,410.00	94.30	205.74	6,226.90	-1,322.80	-668.50	1,475.27	0,99	0.67	0.73
	7,456.00	90.06	203.78	6,225.15	-1,364.53	-687.74	1,521.14	10.15	-9.22	-4.26
	7,501.00	89.69	204.16	6,225.25	-1,405.65	-706.03	1,566.09	1.18	-0.82	0.84
	7,546.00	89.63	203.91	6,225.52	-1,446 <i>.</i> 75	-724.35	1,611.04	0.57	-0.13	-0.56
	7,591.00	90.00	203,28	6,225.66	-1,487.99	-742.37	1,656.00	1.62	0.82	-1.40
	7,637.00	89.31	202.78	6,225.94	-1,530.32	-760.36	1,701.98	1.85	-1.50	-1.09
	7,682.00	91.47	205.40		-1,571.39	-778.73	1,746.92	7.55	4.80	5.82
	7,727.00	91.88	207.91	6,224.32	-1,611.59	-798.90	1,791.70	5.65	0.91	5.58
	7,773.00	91.94	207.91	6,222.79	-1,652.22	-820,42	1,837.37	0.13	0.13	0.00
	•	91.88	206.41	6,221.29	-1.692.23	-840.95	1,882.11	3,33	-0.13	-3.33
	7,818.00		205.41	6,221.29	-1,692.23 -1,732.71	-860.56	1,926.94	2.51	-0.16	-2.51
	7,863.00	91.81			-1,732.71 -1,774.55	-879.64	1,972,85	3.69	-1.54	-3.35
	7,909.00	91.10	203.74	6,218.67	•			2,58	1.44	-2.13
	7,954.00	91.75	202.78	6,217.55	-1,815.88 1 957 17	-897.40 -815.22	2,017.81		0.13	2.51
	7,999.00	91.81	203.91	6,216.15	-1,857.17	-915.22	2,062.76	2.51		
	8,044.00	92,56	206.16	6,214.44	-1,897.91	-934.25	2,107.63	5.27	1.67	5.00
	8,090.00	92.19	204.91	6,212.53	-1,939,38	-954.06	2,153.46	2.83	-0.80	-2.72
	8,135.00	92.75	205.41	6,210.59	-1,980.08	-973.18	2,198.32	1.67	1.24	1.11
	8,180.00	91,25	206.66	6,209.02	-2,020.48	-992,91	2,243.14	4.34	-3,33	2.78
	8,226.00	92.88	208.91	6,207.36	-2,061.15	-1,014.34	2,288.81	6.04	3.54	4.89



Weatherford[®]

Weatherford International Ltd.

Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site: Well: GMBU 2-36-8-15H

Wellbore:

Design:

GMBU 2-36-8-15H GMBU 2-36-8-15H

GMBU 2-36-8-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Database:

Well GMBU 2-36-8-15H

KB @ 5791.50ft (CAPSTAR 328) KB @ 5791.50ft (CAPSTAR 328)

True

Minimum Curvature

EDM 5000.1 Single User Db

Measured			Vertical			Vertical	Dogleg	Build	Turn
	I II 41	A!Al-	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
Depth (ft)	Inclination (°)	Azimuth (°)	(ft)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)
							0.00	-0.29	0.00
8,271.00	92.75	208.91	6,205.15	-2,100.49	-1,036.07	2,333.36 2,377.99	0.29 4 .07	-3.20	÷2,51
8,316.00	91.31	207.78	6,203.56	-2,140.07	-1,057.42			3.07	1.96
8,361.00	92.69	208.66	6,201.99	-2,179.70	-1,078.68	2,422.63	3.64		
8,407.00	92.15	210.44	6,200.05	-2,219.68	-1,101.35	2,468.11	4.04	-1.17	3.87
8,452.00	91.25	209.91	6,198.71	-2,258.56	-1,123.96	2,512.55	2.32	-2.00	-1.18
8,497.00	92,38	209.91	6,197.29	-2,297.55	-1,146.39	2,557.02	2.51	2.51	0.00
8,543.00	92.13	209.53	6,195.48	-2,337.47	-1,169.17	2,602.49	0.99	-0.54	-0.83
8,588.00	92.00	208.53	6,193.85	-2,376.79	-1,191.00	2,647.05	2.24	-0.29	-2.22
8,633.00	92.31	208.06	6,192.16	-2,416.38	-1,212.31	2,691.68	1.25	0.69	-1.04
8,695.00	91.75	207.41	6,189.97	-2,471.22	-1,241.15	2,753.25	1.38	-0.90	-1.05
8,740.00	92,13	208.03	6,188.44	-2,511.04	-1,262.07	2,797.95	1.62	0.84	1.38
•			6,186.89	-2,550.81	-1,283.05	2,842.63	1.16	-0.69	-0.93
8,785.00	91.82	207.61			-1,203.65	2,887.36	1.61	0.40	-1.56
8,830.00	92.00	206.91	6,185.39	-2,590.79		•	2.02	1.50	1.35
8,876.00	92,69	207.53	6,183.51	-2,631.66	-1,324.68	2,933.07		-1.24	0.00
8,921.00	92.13	207.53	6,181.62	-2,671.53	-1,345.46	2,977.77	1.24		
8,966.00	91.38	207.53	6,180.24	-2,711.42	-1,366.25	3,022.48	1.67	-1.67	0.00
9,012.00	92.19	209.03	6,178.81	-2,751.91	-1,388.03	3,068.12	3.70	1.76	3.26
9,057.00	92.38	209.16	6,177.01	-2,791.20	-1,409.89	3,112.67	0.51	0.42	0.29
9,102.00	92.13	208.28	6,175.24	-2,830.63	-1,431,50	3,157.25	2.03	-0.56	-1.96
9,148.00	92.94	207.66	6,173.21	-2,871.22	-1,453.05	3,202.90	2.22	1.76	-1.35
0.102.00	89.75	205.91	6,172.15	-2,911.37	-1,473.32	3,247.67	8.08	-7.09	-3.89
9,193.00		206.07	6,172.40	-2,951.82	-1,493.04	3,292.52	0.46	-0.29	0.36
9,238.00	89.62			-2,992.18	-1,512.94	3,337.35	0.81	0.29	0.76
9,283.00	89.75	206.41	6,172.64		•	3,383.14	1.76	0.67	1.63
9,329.00	90.06	207.16	6,172.72	-3,033.24	-1,533.67			0.29	0.00
9,374.00	90.19	207.16	6,172.62	-3,073.28	-1,554.21	3,427.90	0.29		
9,419.00	91.00	207.28	6,172.16	-3,113.30	-1,574.79	3,472.66	1.82	1.80	0.27
9,465.00	91.06	206.91	6,171.33	-3,154.24	-1,595.74	3,518.42	0.81	0.13	-0.80
9,510.00	92.75	206.78	6,169.83	-3,194.37	-1,616.05	3,563.18	3.77	3.76	-0.29
9,555.00	91.88	206.91	6,168.02	-3,234.49	-1,636.35	3,607.93	1.95	-1.93	0.29
9,601,00	91.69	207.28	6,166.58	-3,275.42	-1,657.29	3,653.68	0.90	-0.41	0.80
•	04.25	207.66	6,165.43	-3,315.33	-1,678.05	3,698.40	1.29	-0.98	0.84
9,646.00	91.25			-3,355.26	-1,698.75	3,743.13	2.00	1.67	-1.11
9,691.00	92.00	207.16	6,164.15		-1,719.33	3,787.88	4.45	-4.44	0.27
9,736.00	90.00	207.28	6,163.37	-3,395.27	-		3.39	3.39	0.00
9,782.00	91.56	207.28	6,162.74	-3,436.15	-1,740.41	3,833.62		-3.20	-0.80
9,827.00	90.12	206.92	6,162.08	-3,476.20	-1,760.91	3,878.38	3.30		
9,872.00	90.94	207.28	6,161.66	-3,516.26	-1,781.41	3,923.15	1.99	1,82	0.80
9,918.00	91.88	207.91	6,160.53	-3,557.01	-1,802.71	3,968.86	2.46	2.04	1.37
9,963.00	92.13	207.91	6,158.96	-3,596.76	-1,823.76	4,013.53	0.56	0.56	0.00
10,008.00	92.31	208.03	6,157.21	-3,636.47	-1,844.85	4,058.19	0.48	0.40	0.27
10,053.00	95.00	207.78	6,154.35	-3,676.15	-1,865.87	4,102.80	6.00	5.98	-0.56
		206.66	6,150.29	-3,716.90	-1,886.82	4,148.37	2.44	0.28	-2.43
10,099.00	95,13		•	-3,756,92	-1,906.86	4,192.94	3.35	3,33	-0.29
10,144.00	96.63	206.53	6,145.68		-1,926.81	4,237.52	3.01	-3.00	-0.29
10,189.00	95.28	206.40	6,141.01	-3,796.99		4,283.18	1,90	-1.83	-0.52
10,235.00	94.44	206,16	6,137.11	-3,838.09	-1,947.10			-2.51	1.67
10,280.00	93.31	206.91	6,134.07	-3,878.25	-1,967.16	4,327.89	3.01		
10,325.00	91.88	205.53	6,132.03	-3,918.58	-1,987.02	4,372.67	4.41	-3.18	-3.07
10,370.00	91.75	205,16	6,130.61	-3,959.23	-2,006.27	4,417.54	0.87	-0.29	-0.82
10,416.00	92.56	206.03	6,128.88	-4,000.68	-2,026.13	4,463.38	2.58	1.76	1.89
10,461.00	92.75	206.41	6,126.79	-4,041.01	-2,045.99	4,508.16	0.94	0.42	0.84
10,461.00	91.84	207.02	6,124.99	-4,081.17	-2,066.20	4,552.93	2.43	-2.02	1.36
			,	• •	-				
LAST SVY			0.404.00	4 000 00	0.070.07	A EC4 00	3,62	2.44	-2.67
10,515.00	92.06	206.78	6,124.68	-4,089.20	-2,070.27	4,561.88	3,02	4.74	-2,01
•									



Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site: Well: GMBU 2-36-8-15H GMBU 2-36-8-15H

Wellbore: Design:

GMBU 2-36-8-15H

GMBU 2-36-8-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well GMBU 2-36-8-15H

KB @ 5791,50ft (CAPSTAR 328)

KB @ 5791.50ft (CAPSTAR 328)

True

Minimum Curvature

EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PROJ SVY 10,580.00	92.06	206.78	6,122.35	-4,147.19	-2, 099.54	4,626.54	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
GMB 2-36-8-15 - survey misses targ - Circle (radius 200		0.00 29.10ft at 0.0	0.00 02ft MD (0.02	429.08 2 TVD, 0.00 N	-3.91 I, 0.00 E)	7,200,716.38	2,010,196.01	40° 4' 49.191 N	110° 10' 42.270 W
PBHL - GMBU 2-36-8-1 - survey misses targ - Point		0.00 3.83ft at 1056	6,111.24 63.95ft MD (-4,129.16 6122.92 TVD	-2,098.73 , -4132.87 N, -	7,196,127.70 2092.32 E)	2,008,168.77	40° 4' 4.140 N	110° 11' 9.217 W

Survey Annota	ntions					
	Measured	Vertical	Local Coor	dinates		
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
	10,515,00	6,124.68	-4,089.20	-2,070.27	LAST SVY	
	10,580.00	6,122.35	-4,147.19	-2,099.54	PROJ SVY	

		
Checked By:	Approved By:	Date:
Checked by.		20.0.
		••••••••••••••••••••••••••••••••••••••



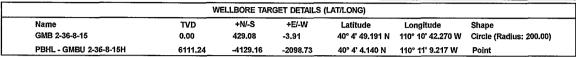
Project: DUCHESNE COUNTY, UT

Site: GMBU 2-36-8-15H Well: GMBU 2-36-8-15H Wellbore: GMBU 2-36-8-15H

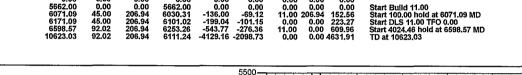
Design: GMBU 2-36-8-15H Latitude: 40° 4' 44.950 N Longitude: 110° 10' 42.220 W

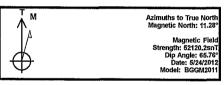
GL: 5773.50 KB: KB @ 5791.50ft (CAPSTAR 328) Y

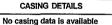
Weatherford*

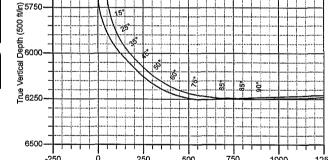


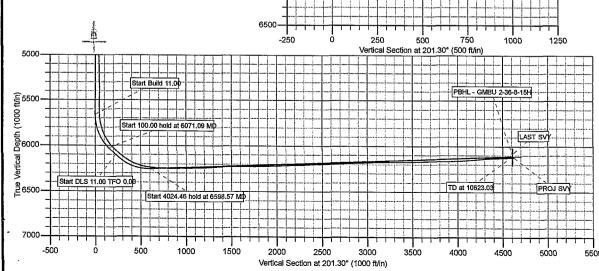
				WE	LL DETAIL	S: GMB	U 2-36-8	1-15H			
	+N/-S 0.00	+E/-W 0.00	Northing 7200287.4		Ground Let Easting 2010206.26		5773.50 Latittu 40° 4' 4	de	Longitude 110° 10' 42.220 W	Slot	
					SECTIO	ON DETA	AILS				
MD 0.00	Inc 0.00	Azi 0.00	TVD 0.00	+N/-S 0.00	+E/-W 0.00	Dleg 0.00	TFace 0.00	VSect 0.00	Annotation		
5662.00	0.00	0.00	5662.00	0.00	0.00	0.00	0.00	0.00	Start Build 11.00		

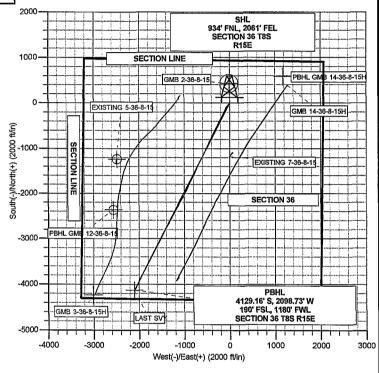


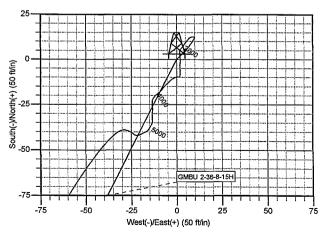












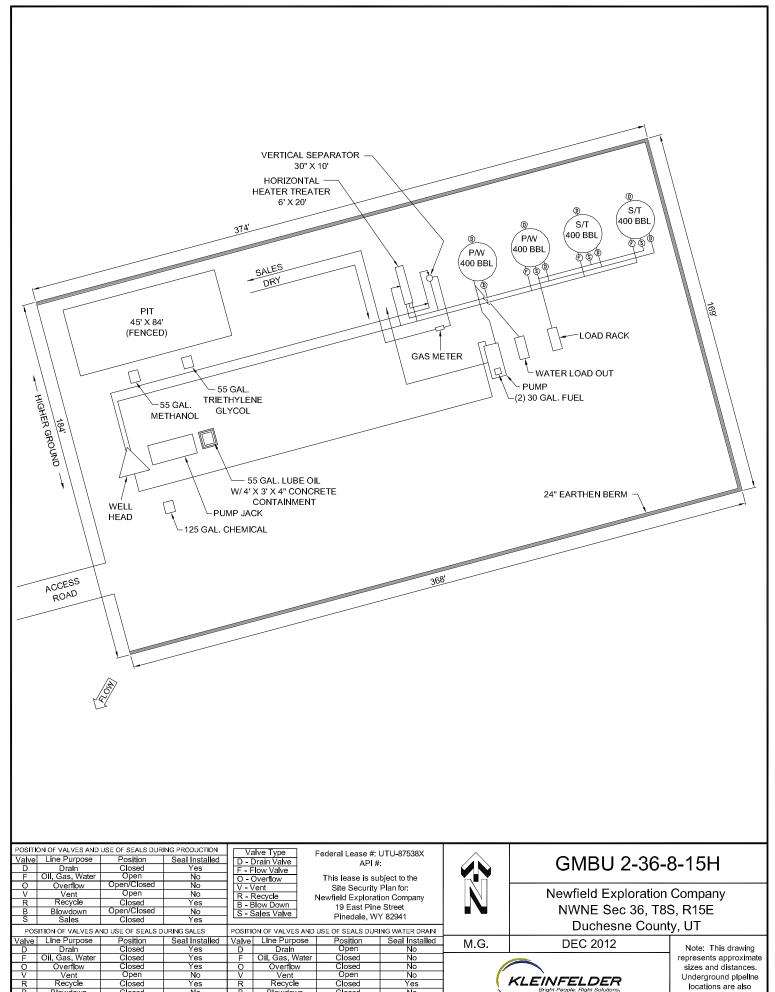
Design: GMBU 2-36-8-15H (GMBU 2-36-8-15H/GMBU 2-36-8-15H)

Created By: MATT MAYDEW

Date: 9:41, June 19 2012

	FORM 9				
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: ML-21835				
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)				
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: GMBU 2-36-8-15H				
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	9. API NUMBER: 43013510650000				
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 200	NE NUMBER: 3 382-4443 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0934 FNL 2061 FEL	COUNTY: DUCHESNE				
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNE Section: 3	STATE: UTAH				
11. CHECK	K APPROPRIATE BOXES TO INDI	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION					
	ACIDIZE		ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME	
Approximate date work will start:	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN		FRACTURE TREAT	NEW CONSTRUCTION	
1/2/2014	OPERATOR CHANGE		PLUG AND ABANDON	PLUG BACK	
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON	
DRILLING REPORT	L TUBING REPAIR	□ \	/ENT OR FLARE	WATER DISPOSAL	
Report Date:	WATER SHUTOFF	∐ s	SI TA STATUS EXTENSION	APD EXTENSION	
	WILDCAT WELL DETERMINATION	√ d	OTHER	OTHER: Site Facility/Site Security	
	COMPLETED OPERATIONS. Clearly sh		DIAGRAM	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 08, 2014	
NAME (PLEASE PRINT) Jill L Loyle	PHONE NU 303 383-4135	TITLE Regulatory Technician			
SIGNATURE N/A			DATE 1/3/2014		

RECEIVED: Jan. 03, 2014



Νo

Yes No

Closed

Closed

Closed

Closed Open

KLEINFELDER

represents approximate sizes and distances. Underground pipeline locations are also approximated.